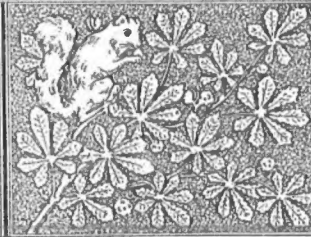
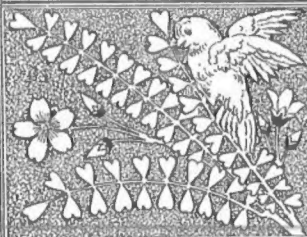


THE
AMERICAN ARCHITECT
AND
BUILDING NEWS



VOLUME XV

JANUARY-JUNE
1884

JAMES ROSGOOD & CO. PUBLISHERS.
211 TREMONT ST. BOSTON.

house suitable for one or two families. Could you not work it out that builders as well as architects would become interested in the general public. I would like to see what our builders and I feel assured that there are more than I with the same desire in their minds—a little home for themselves in the city. Please consider this matter, and do not throw this in the paper basket, as it has cost me an amount of trouble to write CEREES.

exterminating white ants.

CHICAGO, ILL., December 19, 1883.

EDITORS OF THE AMERICAN ARCHITECT:—
Gentlemen,—Can you, or any of the readers of the *Architect* give me any preparation to prevent the destruction of timber by ants in tropical climates. An early reply to the above in the next issue will be regarded as a kind favor.

Yours respectfully, T. N. BELL.

NOTING, if thoroughly done, will protect timber against the white wash of arsenic, or painting with Paris green or other arsenical paint, is said to keep the insects away from wood so treated. A rather simple method of preventing the ravages of white ants, which we have lately recommended, consists simply in the introduction of a swarm of red ants into the buildings infested with the more destructive insect. The red ants fight their self-bodied white brethren everywhere, and soon exterminate them.—*EDS. AMERICAN ARCHITECT.*

WHERE TO STOP THE STAFF-BEAD.

WASHINGTON, D. C., December 13, 1883.

EDITORS OF THE AMERICAN ARCHITECT:—
Gentlemen,—To settle a dispute between two draughtsmen, will you state which is the better construction in ordinary windows, transoms or transoms,—for the "staff-bead" to come down to the stone sill, or to stop on the wood sill.

II.
I decidedly prefer to make the wooden sill so wide that the staff-bead stop upon it. The stone sill is thus better covered and may be less depth. Moreover, the staff-bead is less liable to rot out at the point it stops upon the wood-work than if it runs down to the damp and finally the extra projection of the sill required to stop the staff-bead of zinc or brass where outside blinds are to be hung to the frame. Money is saved to the frame-maker by running the staff-beads down the stone sill, which is more than counterbalanced by the saving which can be made in the stone sills if the other form of frame be used.—*EDS. AMERICAN ARCHITECT.*

THE FALL OF A MARKET-HOUSE ROOF.

LANCASTER, PA., December 26, 1883.

EDITORS OF THE AMERICAN ARCHITECT:—
Gentlemen,—Enclosed you will please find a clipping describing the manner in which the roof of the market-house at Lancaster, Pa., fell. There are no professional architects in this city, and but few builders who possess a good knowledge of building construction. In this instance the architect engaged the services of a man to design the building who connection whatever with the building trade, neither as an architect, builder, nor mechanic, and when one considers the terrible disaster which would have undoubtedly been the result had the roof collapsed a few hours later, it impresses one very forcibly the capabilities of the architect of such a building should be of very high quality.

Yours, etc. C. E. URDAN.

roof of the market-house in question was crushed by the weight of snow, and fell in very early on Christmas morning, just in time to crush many persons out of the crowd which would have filled it a day later. As shown in the sketch which our correspondent kindly enclosed, the structure was one story in height, covered with a curved roof of arched lattice-work of wood, tied at the feet with iron rods. The rods were one and one-fourth inches in diameter, but not being at the ends, the effective diameter was reduced by the cutting of the rods to one inch. We do not know the distance between the trusses, material on the roof, so that it is impossible to say just what the load on the tie-rods may have been; but it is not surprising to learn that all of them were found to be broken at the nuts.—*EDS. AMERICAN ARCHITECT.*

WATER AS A MOTIVE POWER IN THE TROPICS.—It has occurred to a gentleman resident in Georgetown, West Indies, that a possible source of energy is allowed to run to waste in the shape of the water which pours off the roofs of the houses whenever there is a shower. The gentleman in question, in a delivered recently before a local society, said that, "having been lately struck by the great volume of water discharged from roofs heavy tropical rains, it occurred to me that the power so wasted might be utilized in some way by converting it into electricity by the following means: The water from each roof might be conducted into tin down-pipe, in which would work a small turbine-wheel driven by the water, the electricity so developed by every shower to be stored in accumulators of the type of Faure's or other batteries. These, as they became charged in variable time, during the rainfall, could be collected and stored at central points from whence the power could afterward be distributed into either electric dynamo engines, or utilized directly for electric lighting."—*Electrician.*

BUILDING INTELLIGENCE.

(Special for The American Architect and Building News.)

(Letters and a large portion of the building intelligence is provided by their regular correspondents, the editors of the various papers, who are supplied with information, especially from the most reliable and reliable sources.)

BUILDING PATENTS.

(Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.)

HYDRAULIC ELEVATOR.—Norman C. Bassett, Chicago, Ill.
HYDRAULIC ELEVATOR.—James H. Bassett, Albany, N. Y.
HYDRAULIC ELEVATOR.—John Collis, Des Moines, Ia.
AUTOMATIC BELT-SHIFTER FOR ELEVATORS.—Frank W. Fuller, San Francisco, Cal.
KEYS-TROTH HANGER.—Josiah Bear and Henry Whittenberger, Fredonia, Pa.
FRANKING CORNER-PIECE FOR PLASTER WALLS.—Geo. W. D. Cushman, Montclair, N. J.
SLIDING DOOR.—Jas. K. Drillingier, Terre Haute, Ind.
MANUFACTURE OF ARTIFICIAL STONE.—John W. Gallup, Denison, Tex.
HOISTING-DECK.—Wm. Manson, Chicago, Ill.
PIPE-TONG.—Jas. L. Straff, Thomas, Mo.
ACQUER-BIT.—Jas. Swab, Seymour, Conn.
AUTOMATIC VENT FOR WATER-PIPES.—Joseph Westgate, Manchester, N. H.
FIRE-PROOF MATERIAL.—John S. Beer, Buffalo, N. Y.
WATER-LESS FOR SOLAR HEATERS.—William Carter, Washington, D. C.
DOOR-SILL AND STEP.—Levi Haas, Chesapeake, Va.
CONCRETE FLOOR, ROOF, ETC.—Thaddeus Nijet, New York, N. Y.
HOLE OR MEASURE.—Frank J. Kellogg, Battle Creek, Mich.
AIR-HEATING FURNACE.—George W. Macbeth, Philadelphia, Pa.
FIRE-ESCAPE.—George M. Miller and Frederick Riener, Chicago, Ill.
FIRE-ESCAPE.—Aaron Palmer, Rochester, N. Y.
FIRE-KILN.—Thaddeus S. Smith, St. Louis, Mo.
PUBLIC-HALL EXIT.—Rowena C. Webster, St. Louis, Mo.
FIRE-ESCAPE.—Arthur Bixby, Baltimore, Md.
AUTOMATIC TORNADE-BREAKER.—Wm. S. Hunt, New York, N. Y.
PORTABLE HOUSE.—Earl Lee, Corona, N. Y.
FIRE-ESCAPE.—Newman J. Powell, Pontiac, Ill.
SAFETY-HOLDER.—Benjamin F. 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THE AMERICAN ARCHITECT AND BUILDING NEWS.

Copyright, 1884, JAMES R. OSGOOD & Co., Boston, Mass.

No. 420.

VOL. XV.

JANUARY 12, 1884.

Entered at the Post-Office at Boston as second-class matter.

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THE new year opens with a number of serious fires. One of these, the account of which has a certain air of grotesque inconsistency, occurred in Cleveland, where an "absolutely fire-proof" theatre was completely destroyed in three-quarters of an hour, blazing with such fury as to set fire to a "stone church" near by, which was also burned into a useless shell. The theatre was a new one, having been open only a little over two months, and is said to have been constructed with all the safeguards now regarded as necessary to complete security. The stage was separated from the auditorium by a thick proscenium-wall of brick, extending six feet above the roof; and the proscenium-arch was closed by a fire-proof curtain. Brick and asbestos were used in place of wood wherever possible, and all the staircases in the building were of stone or iron. Even the dome over the auditorium was made of sheet-iron, and, in accordance with the most recent and approved practice, an immense skylight was placed in the roof of the stage, so that in case of fire the glass would break, setting in motion a current of air from the auditorium into the stage, to carry smoke away from the audience.

IN addition to all these precautions, which it must be remembered are not less valuable because they have once failed of the entire effect hoped for from them, stand-pipes were provided at various places in the theatre and on the stage. The cause of the fire, according to the excellent account of the Boston Herald, seems to have been a leakage of gas from the meter or the pipes near it. A violent explosion took place when the janitor, carrying a lamp, opened the door of the meter room, and the flames poured out of the door and kindled some light wood-work near by. The engineer was standing close at hand, and immediately ran to the pumps and set them in motion, but in a few minutes the scenery and stage apparatus caught fire, driving every one out of the building. Although an alarm was promptly sounded, the utmost efforts of the whole city department were insufficient to control the progress of the conflagration, which raged until nothing was left of the building but the front and side walls, which, being of brick, may possibly be used again in re-building. The church, which was simply a combustible frame with a stone shell, suffered the usual fate of such structures under similar circumstances. This occurrence is the more interesting, as it is the first trial of the new principles of theatre-building which have found currency since the terrible warnings given by the catastrophes at Brooklyn, Nice and Vienna. It is very much to be hoped that we may have later an account of the fire written by the architect of the building, or by some other equally competent expert, which will serve to show the value, in time of actual trial, of the various precautions employed. Such an account would serve a most excellent purpose, not only in pointing out the way for further improvements in theatre construction, but in showing the real efficacy of the devices which at least deserve the credit of having probably saved the lives of the few persons who happened to be in the theatre.

THE fire next in importance so far as regards the instruction which the account of it conveys to architects, is one which consumed the Beaurivage apartment-house in Chicago, the finest building of the kind in the city. Although constructed with care, for the occupancy of the best class of tenants, the house seems to have possessed some of the worst faults common to structures of the kind, so that a small fire, originating in some way in the basement, was able to make its way to the shaft of the freight-elevator, and thence to the servant's staircase, which was of wood. The combination of a wooden staircase and an elevator-shaft is about the most favorable one for combustion ever invented, and the fire spread immediately through each story, driving the occupants of the building from their beds, to rush panic-stricken, many of them in their night-clothes, and with bare feet, into the street below, where the thermometer stood at twenty-nine degrees below zero. Fortunately, a hotel was close by, but several of the terrified fugitives had their feet frozen before they reached shelter.

A VALUABLE suggestion for the better suppression of conflagrations has been made by the New York Fire Commissioners, who, having observed the efficiency of the fire-boats hitherto used for service along the river fronts, propose that the same boats should be employed in case of an extensive fire in the dry-goods district, or any other part of the city within a mile or so of the water, to force salt water from the rivers into portable tanks, containing about four thousand gallons each, which could be drawn by horses to a convenient place near the scene of the fire. The power of the fire-boats is sufficient, it is thought, to force water into a tank nearly, or quite, four thousand feet away, and as each tank, supplied from the fire-boat engines, would furnish at least three ordinary steam fire-engines with all the water they needed for continuous operation, the resources of the Department might in this way be materially increased, at very small expense. No experiments have yet been tried to show how the plan will work in practice, but orders have been given for making actual tests as soon as possible, and if the result is favorable the necessary tanks and hose, with the other appliances necessary for stretching the long lines of hose in the shortest possible time from the river to the street tanks, will be at once provided.

BY the kindness of the architect concerned, we are put in possession of the report of a case of great importance to architects, which was decided in the Superior Court of Suffolk County, Massachusetts, some time ago. It appears from the evidence that the architect, who was the plaintiff in the case, was invited to enter into a limited competition for the selection of an architect to build a certain church; and that he made drawings and submitted them in accordance with the invitation. The church records showed that his plans received the largest number of votes, but the result of the voting was never communicated to him, and at the same meeting, after the voting upon the plans, it was resolved to employ that one of the three architects engaged in the competition with whom the most advantageous bargain could be made. In accordance, apparently, with this prudent suggestion, the plaintiff was approached by the committee, and an agreement made, under which he was to prepare the plans and specifications for the building, and give partial supervision to their execution, receiving in return the sum of one thousand dollars. The architect then presented the sketches previously submitted in competition, and the committee requested him to make some modifications in them, which he proceeded to do, but immediately after this the committee sent a request to the architect to resign his commission, and, upon his declining to comply with this invitation, notified him to go no farther with the work; and subsequently employed another architect to make the plans from which the building was actually constructed.

THE first architect then, on the ground that he had contracted with the church committee to furnish plans, specifications and partial superintendence for their building, and was still ready and willing to do so, but was prevented by the committee itself, brought suit to recover the compensation which the committee had agreed to pay him. The defendants replied that as the plaintiff had offered, under his special contract, the

marks to a close, I cannot more fittingly do so than by words of the writer, Grindon:—"The air is the great world. Health confides in it as its most faithful friend. It invigorates, the weary it refreshes. Under its wings we forget our vexations and disappointments, we become vivacious, and thence—what without cheerfulness—more willing to 'refuse the evil and choose the good.'"

CONSTANTS.

BIRMINGHAM, CONN.

FOR THE AMERICAN ARCHITECT:—
There is one more question which I would like to ask, signed by the note in Clark's "Building Superintendence," the use of one-half of Trautwine's constant and factor for, apply to all kinds of woods? I believe Professor's constants, as published, have been used by spruce only.

Respectfully, ARCHITECT.

LANZA, since his experiments upon spruce, has made a constant of tests of hard-pine, and some of oak. These, like spruce, average something less than one-half those tabulated book. Trautwine, it must be remembered, is a conservative books giving a constant, for hard-pine particularly, about than his, or three times the actual constant for large beams, as Professor Lanza's experiments.—EDS. AMERICAN ARCHITECT.

THE COMPETITION IN HISTORICAL PAINTING.

PHILADELPHIA, January 7, 1883.

FOR THE AMERICAN ARCHITECT:—
The artists of Philadelphia have published the subscription, signed by about forty of their number, against the jury of awards in the recent competition in historical painting at the Pennsylvania Academy. Of the four prizes which only one, the silver medal, was awarded, and the artists the refusal to award the others was based upon a reason mentioned in the circular inviting them to compete.

It is given by the jury for their action was simply this: the pictures were worth the three thousand dollars and the first prize, nor possessed sufficient merit to merit it. It was thought the Academy's gold medal, which the artists declare that by this decision the Academy rendered "foolish and discreditable" to those who participated in the competition, and that the jury "are responsible for a breach of conduct wholly unjust and certain to deter others from future participation in a like nature."

On which the artists seem to lay most stress is the fact of reservation of the right to reject any or all of the pictures was omitted from the circular. This was unbusinesslike, but the merits of their case must be judged on very small terms. Reasonable differences of opinion will exist regarding the legal or even the moral obligation of the jury to distribute the prizes according to the merits of the works without regard to any standard of positive or negative influence on future competitions there is no difference at all. As far as the competition meant an important historical picture painted for three thousand dollars was readily foreseen and will hardly be very far as it was an effort to encourage, in even a very small way, the artists who are desirous of doing something more than the things by which they are obliged to live, in more complete and will occasion sincere regret.

PHILADELPHIA artists held Wednesday, December 12, Chairman, the following resolutions were adopted:—

1. The Jury of Awards of the Temple Competition in Historical Painting, admitting four pictures to that Competition, have refused to award the four prizes offered in their circular of August 31, 1882, as mentioned in that circular; and

2. Therefore, This refusal is a deliberate disregard of the terms of this Competition, under which terms certain paintings were time, labor and money in a contest now rendered foolish and unjust, and the action of this Jury of Awards; and

3. Therefore, The continued silence of the artistic community of Philadelphia, in connection with this Competition, is likely to be taken for acquiescence in the action of this Jury of Awards; and

4. It is Resolved, That the Jury of Awards of the Temple Competition in Historical Painting, in withholding the first, second, and fourth prizes, not published in their circular of invitation, are responsible of contract, wholly unjust to the painters competing, and that a copy of these resolutions be respectfully presented to the Pennsylvania Academy of Fine Arts, and that said resolutions be published in the principal art papers of this country.

5. FRAMING FOR EXHIBITION BUILDINGS.—A southern architect, William Golding, of New Orleans, suggests the idea of constructing a framework of large exhibition buildings which must be after brief use, of wrought-iron steam-pipes of standard size, together with standard fittings in such a manner that they can be put out of injury, and sold at small loss when the building is no longer needed.

SUMMARY OF THE WEEK.

Atlanta, Ga.

Building Permits.—The rush has been cleared away from the site of the H. J. Kimball House, burned in August last, and a new building of the same name is being erected in its place. The new hotel is to be built upon seven stories in height, of brick, iron and terra-cotta finish, and to contain 438 rooms. It is expected that the hotel will be opened some year from the date of the burning of the old hotel. Kimball, Wheeler & Co., are the architects.
Building Permits.—Mrs. L. N. Angier, 4 four-story brick house on McDonough St.; cost, \$12,000; P. J. Palmer, contractor.
Building Permits.—J. S. Lawton, two-story frame dwelling; cost, \$3,500; Fay & Eichberg, architects.
Building Permits.—W. S. Thompson, two-story frame dwelling; cost, \$3,500; Fay & Eichberg, architects.
Building Permits.—G. P. Dodd, remodeling two-story brick house on Washington St.; cost, \$4,000; E. G. Eichberg, architect.
Building Permits.—J. A. McBride, remodeling dwelling; cost, \$4,000; Fay & Eichberg, architects.
Building Permits.—W. C. Dodson, remodeling dwelling; cost, \$2,000; Fay & Eichberg, architects.
Building Permits.—J. P. Cretton, remodeling dwelling; cost, \$4,000; Fay & Eichberg, architects.

Baltimore.

Building Permits.—George Archer, architect, has prepared drawings for the Brush Electric Company, for a two-story brick building, 49' x 78', to be erected on Constitution St., between Monument and Madison Sts.; cost, \$5,000; John Waters, builder.
Building Permits.—Since our last report five permits have been granted, the more important of which are the following:—
John D. Bramble, 3 three-story brick buildings, 33' x 33', 33' x 33', 33' x 33', on Washington St.
Charles A. Carpenter, 12 three-story brick buildings, 33' x 33', on McCulloch St., e. of Preston St.
James Fox, two-story brick building, w. a Caroline street, between Canton and Eastern Aves., 22' x 50'.
Morris Hoyer, two-story brick building and two-story brick stable, 2' x 2' x 2', on Fremont St., between George and Clark Sts.

Boston.

Building Permits.—Brick—Columbus Ave., Ward 11, for Boston & Providence R. Co., freight office, 12' x 22' x 22'; pitch: L. D. Willcutt, builder.
Brick—Columbus Ave., Ward 11, for Mrs. Nathaniel Thayer, dwelling-house, 22' x 22'; pitch: Peabody & Stearns, architects.
Brick—Myrtle St., No. 130, Ward 9, for Joseph Comer, warehouse, 20' x 41' and 55' x 41', four-story flat; pitch: J. Mack, Jr., and H. B. Blodgett, builders.
Brick—Myrtle St., near Cape St., Ward 24, for M. J. Jackson, dwelling, 21' x 21' x 21', two-story flat; pitch: M. H. Jackson, builder.
Brick—Prospect St., near Armandine St., Ward 24, for Charles A. Hall, dwelling, 15' x 22' and 22' x 22', two-story flat; pitch: M. H. Jackson, builder.
Brick—Harvard St., nearly opposite Wales St., Ward 21, for Charles Newman, 2 dwellings, 21' x 21' and 21' x 21', two-story flat; pitch: Geo. M. Fernald, builder.
Brick—Algonquin St., near Walnut Ave., Ward 23, for Samuel Hastings, dwelling, 22' x 21' x 21', two-story flat; pitch: Wm. J. Jobling, builder.
Brick—Blue Hill Ave., cor. Savin St., Ward 21, for Hugh Kawn, workshop, 30' x 30', one-story; pitch: James Edwards, builder.

Chicago.

The Year's Work.—Commissioner Kirkland, of the Building Department, reports for the year ending December 31, 1882, that 3204 permits were issued for buildings, and 1693 for sheds. Number of buildings, 1,086; frontage, 85,858 feet; cost, \$21,527,910; area of sheds, 180,000; expended on city and county buildings, \$475,000; total cost, \$22,102,910.
Building Permits.—D. Harry Hammer, two-story flat, 323-325 Wabash Ave.; cost, \$8,000; architect, Wm. Longhurst.
Building Permits.—A. Williams, two-story flat, 274 and 276 Idaho Sts.; cost, \$6,000; architect, A. Williams.
Building Permits.—Bartholomew Leight Co., 2 three-story dwellings, 128 and 132 Lincoln Ave.; cost, \$16,000; architect, Otto Matz.
Building Permits.—K. Jessel, two-story dwelling, 503 Marshall Ave.; cost, \$4,000; architect, A. Fressels.
Building Permits.—Chicago Evening Journal Co., two-story additional, 110 and 161 Dearborn Sts.; cost, \$24,000.

New York.

Exchange.—Building on the New York Mercantile Exchange, a w. cor. of Harrison and Hudson Streets, will commence May 1.
Railroad Depot.—The Third Ave. Railroad Depot, previously mentioned as to be built on the east side of Tenth Ave., from One Hundred and Twenty-fifth St. to One Hundred and Twenty-ninth St., will cover a lot 200' x 200', and will cost \$175,000. Mr. Paul F. Schoen is the architect.
Building in 1883.—There were filed in the Building Department in 1883 plans for 2,748 buildings, estimated to cost \$43,211,430, against 2,577 costing \$44,703,165 in 1882, showing a slight increase in number of buildings, and a little less money laid out last year to the previous one.
Building Permits.—Algonquin Ave., between James and Witte Sts., one-story building, 30' x 30'; Jno. Blood & Bro.
Building Permits.—Pond Breese, two-story warehouse, 22' x 217', pump-house, 20' x 50', Atlantic Building Co., owners.
Building Permits.—Johnson St., No. 24 (Jersey Avenue), two-story carpenter-shop, 21' x 30'; W. Kohl & Co., contractors.
Building Permits.—Charlotte St., n. of Thompson St., three-story dwelling, 11' x 31'; Adam Schuler, contractor.
Building Permits.—Thirty-ninth St., cor. Locust St., by A. J. Drexel, dwelling-house, of brick and brownstone and tile roof, 40' x 60'; cost, \$25,000; plans by T. Roney Williamson, architect; A. A. Cattanach, builder.

St. Louis.

Building Permits.—Forty permits have been issued since our last report, twelve of which are for unimportant frame houses. Of the rest, those worth \$2,500 and over are as follows:—
Nicholas J. Dierman, two-story brick dwelling; cost, \$7,000; Simmons, architect; Gunderaker, contractor.
Hyde Park Brewery Co., two-story brick machine-house; cost, \$2,500; E. Jungentofel, architect; Hermann & Schumacher, contractors.
Ed. J. Gay, one-story addition to store-building; cost, \$2,000; F. D. Lee, architect; Jos. Guedry, contractor.
Mrs. Laura J. Bell, two-story addition to brick dwelling; cost, \$3,500; J. Cairns, architect; J. Schuster, contractor.
C. C. Murphy, two-story addition to 3 brick dwellings; cost, \$3,500; C. C. Murphy, contractor.
William Druke, 3 adjacent two-story brick dwellings; cost, \$9,000; Goessle & Hemmers, contractors dwellings.
Geo. M. Allen, two-story brick dwelling; cost, \$20,000; Ed. E. Hall, New York, architect; contract sublet.
M. Foster, 3 two-story brick dwellings; cost, \$10,000; S. M. Koss, contractor.

Toledo.

Asylum.—Contractors are busy estimating, at the office of E. O. Fallis & Co., for the new asylum-buildings to be located here. The bids are announced to be received the 10th January, 1884. As before provided the asylum will be on the "cottage plan," and consist of about forty-six buildings, all of brick. The cost will probably be in the neighborhood of \$500,000.
Contract.—J. V. Sausfelt has been awarded contract for enclosing the "Blade" Building, at \$10,000.
Houses.—Two two-story and basement brick dwellings, cor. Woodruff and Franklin Aves., for Mr. P. P. Olin, architect; cost, about \$11,000; N. B. Bacon, architect; E. Malone, contractor.
Prospect.—A large number of mechanics are now comparatively idle, and the outlook for the coming season seems only fair, though there is a healthy feeling concerning building interests.
The Past Year's Work.—The local papers summarize the building matters in Toledo for 1883 at a total of about 1,600 structures, at a cost of about \$2,500,000.

General Notes.

Adrian, Mich.—Court-house, Lewance Co.; cost, about \$50,000; E. O. Fallis & Co., architects, Toledo, Ohio.
Attleboro, Mass.—The Methodists will probably rebuild their burned church at once. They have \$9,000 insurance money as a starter to carry out the enterprise.
Bridgton, Me.—Citizens of this town are subscribing liberally to build a large shoe-factory for any reliable manufacturer wishing to locate here.
Christy Hill, Pa.—Three-story stone and shell, the roof, 320' front, with wings at ends 40' x 22'; cost, \$10,000; plans by G. W. & W. D. Hewitt, architects, Philadelphia.
Devon Station, Philadelphia R. R.—Devon Inn, built of brownstone and brick, length, 312' with wing 42' x 140', four-story; cost, \$152,000; plans by G. W. & W. D. Hewitt, architects, Philadelphia.
Duluth, Minn.—The Board of Directors of the Lake Superior Elevator Company have resolved to increase the capital stock of the company to \$2,000,000, and to commence construction of an additional elevator of 1,000,000 bushels capacity on the property of the Northern Pacific Railroad Company.
The Union Improvement and Elevator Company are going to build another elevator on the grounds of the St. Paul & Duluth Railroad, near their elevator A.
The Duluth & Western Elevator Company are now at work on an extensive elevator.
Germantown, Philadelphia, Pa.—George Crowell, Esq., proposed building a residence on Washington St., to be of stone; plans by T. Roney Williamson, architect.
Hartford, Conn.—Hartford contractors have put up 21,000,000 worth of buildings during the year, mostly in that city, the most expensive being the \$230,000 high-school house, the \$45,000 Connecticut Fire Insurance Building, and the \$30,000 United Fidelity Building.
Haverhill, Mass.—A house is being built from plans of Mr. E. A. P. Newcomb, of Boston, for Jones Franklin, Esq.; cost, \$4,000.
Jacksonville, Fla.—A committee of citizens has been appointed to obtain plans and estimates for building a hospital for contagious diseases on Sands Hill, Dr. G. Drew, of City Board of Health, and Mr. P. McQuaid are the committee.
Kasota, Minn.—The Omaha and Northwestern roads will join next spring and build a new depot at Kasota; at least report says so.
Lawrence, L. I.—A cottage, to cost \$8,500, is to be built for Miss Browning, from designs of Mr. H. B. Edwards-Flecken, of New York.
Long Branch, N. J.—The First Presbyterian Society will build a church next season.
Macos, Ga.—House for H. S. Ober, Jr.; cost, \$3,500; House for Walter Holmes; cost, \$3,500.
Jail, cost, \$30,000.
Market-house, cost, \$10,000.
Plans for the last two have not yet been made.
Frank N. Wilcox is preparing plans for the State House to be built in Atlanta, so also are D. B. Woodruff & Bro.
Magnaolia, Mass.—Mr. E. A. P. Newcomb, of Boston, is architect of a dwelling, for Mr. James Froeland; cost, \$5,000.
Milwaukee, Wis.—A Thomas Schofield is building a large ice-house at Flat Rock, West Menashaunk.
Milwaukee, Wis.—A building permit has been issued for Howard Ave. block, on the north side of Milwaukee, between Broadway and East Water St.
Minneapolis, Minn.—The Omaha Elevator Co. is to build a 600,000-bushel elevator, near the cor. of First St. and Seventh Ave.

Mr. Bowdoin.—Cottage for Gen. Hazard Stevens; E. A. P. Newcomb, architect; cost, \$4,000.
Nashua, N. H.—Water-tower and windmill, stone base, upper portion framed; cost, \$7,000; R. G. Drew, owner; J. M. Merrick, New York, architect; Jos. Thompson, builder.

Bowling-alley and billiard-room, two-story frame building, Keystone decorated shingles in gables; cost, \$8,000; owner, architect and builder, same as last.

Open-air dining-room, one-story frame building, carographic ceiling; cost, \$3,000; owner, architect and builder, same as last.

New Haven, Conn.—Albert E. Kent, of San Francisco, a member of the Yale Class of 1853, who a year ago presented Yale \$50,000 for the erection of a chemical laboratory, has added \$25,000 to the original gift.

New Orleans, La.—The Board of Managers of the World's Industrial and Cotton Centennial Exposition have adopted the designs proposed by G. M. Gorgenson, architect, of Meriden, Miss., for the main building. It is to be 1,500' long, and 900' wide, with 1,000,000 square feet of floor space, including the music hall in the centre, with seating capacity of 12,000. The design also provides for the main offices, telegraph office, newspaper department, fire-department, police, hospital, waiting rooms, and life-saving apparatus. Ten plans were offered, and three premiums awarded.

New Public Buildings.—The Supervising Architect of the Treasury has completed the plans and drawings of the Government building to be erected at Quincy, Ill.; Peoria, Ill.; Columbus, Ohio, and Syracuse, N. Y., and will in a few days advertise for proposals for their construction.

Preparations are being made for the erection of the new public buildings at Pensacola, Terre Haute, and Concord, N. H.

Newtown, Mass.—A house is being built on Mt. Ida, Newtown, for James H. Barker, Esq.; cost, \$15,000; Mr. D. G. Garry, contractor; Mr. E. A. P. Newcomb, of Boston, architect.

St. David's Station, Pa.—H. A. Geisse, Esq., is building a stone house, 160' x 160', from plans by T. Roney Williamson, architect, Philadelphia.

St. Paul, Minn.—The St. Paul Pioneer Press says that 3,435 stores, residences and public buildings have been erected in St. Paul during the year, the total expenditure being \$8,108,000.
Tallahassee, Fla.—Three-story frame hotel, 53' x 72'; cost, \$12,000; Fay & Eichberg, architects.

Washington, D. C.—Mr. Voorhees has introduced in the Senate the bill for the erection of a building for the Congressional Library, which was prepared after mature consideration and presented in the last Congress by the joint select committee on additional accommodations for the library. It directs that the building be located on the square just east of the Capitol grounds.

West Philadelphia, Pa.—Fifty-seven houses, of brownstone and brick, to cost from \$3,000 to \$7,000 each, from plans by G. W. & W. D. Hewitt, architects.

Wilmington, Conn.—The First National and Dime Savings Banks are erecting a three-story business building for themselves, offices and Masonic hall; material brick, stone and terra-cotta, 80' x 90'; cost, \$25,000; Fallis, Fallis & Co., architects, Bridgeport, Conn., and New York.

COMPETITION.

PUBLIC LIBRARY BUILDING.

[At Boston, Mass.]
The Committee on Public Library, having been authorized to procure plans for a new public library building, to be erected on the lot bounded by Dartmouth Street, St. James Avenue and Boylston Street, and being desirous of interesting architects to produce the best plan for the same, hereby invite proposals, to the authors of the four best designs, according to the order of their merit.
The plans for which premiums are awarded will become the property of the city, with the right to use the whole or any part, or any modification thereof, without further claim from the authors for compensation or employment.
All designs must be sent to the Trustees of the Public Library on or before June 1, 1884.
Further particulars may be had by applying to William H. Lee, Clerk of Committee, City Hall.
For the Committee,
CHARLES V. WHITTEN,
Chairman.

PROPOSALS.

SAFE DEPOSIT VAULTS.

[At Cincinnati, O.]
Sealed proposals will be received at my office on or before 12 o'clock, a. m., January 15, 1884, for the iron-work and brick-work required to construct the vaults of the Fidelity Safe Deposit and Trust Company, Cincinnati, O.
Drawings and specifications on file at my office, Room 18, Bradford Block, corner Sixth and Vine Streets.
SAMUEL HANNAFORD,
Architect.

IRON RESERVOIR.

[At North Attleboro, Mass.]
The North Attleboro Fire District will receive proposals until January 15, 1884, for the construction of a wrought-iron compensating reservoir for the North Attleboro Water Works.
Plans and specifications can be obtained of the undersigned, who reserve the right to reject any or all proposals.
F. G. PATE,
F. S. DRAPER,
E. G. PRATT,
Water Commissioners.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

291,883. **FACET.**—Joseph H. Dorgan, Plattsburg, N. Y.
291,910. **FIRE-ESCAPE.**—John A. Johnson, Chicago, Ill.
291,919. **COMBINED VENTILATOR AND CHIMNEY.**—William F. Matthews, Dallas, Tex.
291,924. **BLIND.**—George Wm. Morstatt, New York, N. Y.
291,926. **WINDOW-SCREEN.**—William H. Mann, Milwaukee, Wis.
291,934. **WRENCH.**—Daniel R. Porter, Revere, Mass.
291,940. **FIRE-ESCAPE AND SELF-PRESERVER.**—James H. Robertson, Kingston, N. Y.
291,956. **FASTERING FOR TOOL-HANDLES.**—Thos. Albert Sweet, Cambria, Cal.
292,005. **HINGE.**—William Gillman, New Haven, Conn.
292,017. **CARPENTER'S SQUARE.**—William R. Jones and Samuel E. Jones, Toccoa, Ga.
292,040. **WEATHER-STRIP.**—Ira Paddock, Greeley, Kans.
292,042. **DOOR-LATCH.**—Melvin Harry Palmer, St. Louis, Mo.
292,046. **DISINFECTING-TANK FOR THE DISPOSAL OF SEWAGE.**—James J. Powers, Brooklyn, N. Y.
292,047. **FLEXIBLE SHUTTER.**—John P. Recker, Indianapolis, Ind.
292,053. **COMBINED TRAP AND OVERFLOW FOR WASH-BASINS, WATER-CLOSETS, SINKS, ETC.**—Carroll L. Hiker, Brooklyn, N. Y.
292,071. **SEAT FOR PUBLIC BUILDINGS.**—George H. Thompson, Plattsburgh, N. Y.
292,092. **GUARD TO HATCHWAYS.**—Henry J. Bleuler, Boston, Mass.
292,101. **SHUTTER.**—Melvin Cottle, Selma, Kans.
292,117. **SASH-FRAME.**—Robert B. Huguenin, Hartford, Conn.
292,119. **PROCESS OF MAKING WHITE LEAD.**—John Karl Kessler, Milwaukee, Wis.
292,120. **WEATHER-STRIP.**—Wm. R. Kizer, Hammond, Ill.
292,131. **THICKNESS-GAUGE.**—Ebenzer Morrison and James P. Herron, Washington, D. C.
292,134. **FIRE-ESCAPE.**—Samuel Norris, Halifax, Nova Scotia, Can.
292,135. **SLIDING-JAW VISE.**—Wm. H. Northall, Bridgeport, Conn.
292,146. **FIRE-ESCAPE.**—Charles M. Travis and Cesar H. Sibolt, Crawfordsville, Ind.
292,149. **METHOD OF CONSTRUCTING BUILDINGS OF ARTIFICIAL STONE.**—Theodore W. Tyrer, Stillwater, Minn.

SUMMARY OF THE WEEK.

Baltimore.

OFFICE-BUILDING.—E. F. Baldwin, architect, has prepared drawings, for Messrs. Keyser Bros., for a four-story brick building, with stone and terra-cotta finish, 35' x 80', to be erected on German St., between South and Calvert Sts.; cost, \$31,000; Mr. Roberts, builder.

BUILDING PERMITS.—Since our last report six permits have been granted, the following of which are the more important:—

Frederick W. Schultz, three-story brick building, s s Fayette St., between Exeter and East Sts.
Chas. H. Callis, 13 two-story brick buildings, w s Ann St., between Chase and Eager Sts.

Wm. A. Allers, 3 two-story brick buildings, w s Goodman Alley, n of Randall St.

Brooklyn.

BUILDING PERMITS.—Graham Ave., s w cor. North Second St., 3 three-story frame double tenements, tin roofs; cost, total, \$13,000; owner, Jno. P. Connelley, Bowers Ins. Co., cor. Bowers and Grand Sts., New York City; architect, E. F. Gaylor; builder, Geo. Lehman and John Rueger.
Boerum St., No. 216, s s 225' e Bushwick Ave., three-story frame double tenement, tin roof; cost, \$1,400; owner, architect and builder, Peter Kuntz-weller, 163 Boerum St.
Bushwick Ave., n w cor. Adams St., three-story frame store and double tenement, tin roof; cost, \$6,000; owner, Michael Reuser, 54 Adams St., architect, T. Engelhardt; builders, Jno. Fuchs and C. Wieber.

Bedford Ave., s s 129' e Herkimer St., two-story and basement brick dwells., tin roofs; cost, each, \$12,000; owner, H. N. Corwith, 108 Franklin St., New York City; architect, J. G. Frague; mason, J. M. Brown.
Longfellow St., s e cor. Washington Ave., 12 two-story stone-front dwells., gravel roofs; cost, each, \$1,500; owner, Mary E. Fowler, s Verona Pl.; architects, Paritt Bros.; builder, Levi Fowler.

Chicago.

BUILDING PERMITS.—J. & E. Buckingham, addition to elevator, South Water St.; cost, \$3,000.

Simon Straus, 4 four-story flats, 179 to 183 West Jackson St.; cost, \$25,000; architect, C. C. Miller; builders, J. H. Miles & Co.
J. T. Ballantine, 2 two-story dwells., 478 West Congress St.; cost, \$4,000; architect, W. Drake; builder, J. T. Ballantine.

S. Berger, two-story store and dwell., 189 Fourteenth St.; cost, \$2,000.
Jas. Novony, four-story and basement store and flats, 427 Eighteenth St.; cost, \$9,000; architect and builder, A. Charnot.

F. O. Skadden, three-story dwell., 233 West Erie St.; cost, \$3,000.

Jacob Roth, two-story dwell., 231 and 233 Warren Ave.; cost, \$7,000.
C. Stone & Sons, three-story carriage-repository, 169 to 175 Ogden Ave.; cost, \$6,000; builder, L. G. Sealand.

C. Stone & Sons, two-story shop, rear 169 to 175 Ogden Ave.; cost, \$3,000.

New York.

APARTMENT-HOUSES.—Mr. Julius Kastner has designed 4 five-story brick and brownstone flats, 25' x 75' each, to be built for Mr. F. J. Schmugg, on the n w cor. of Ave. A and Eighty-first St.; cost, \$60,000.

HOUSE.—Mr. B. H. Robertson has on hand the plans for a house to be built for Mr. Kennedy, on Fifth Avenue.

Mr. G. A. Schellenger is the architect for 53 three-story brick houses, to be built by the "House and Home Company," on ground bounded by Helen, Lewis and Ella Sts. and Morrisania Ave., expected to cost about \$250,000.

LYCEUM.—It is proposed to build a lyceum containing a club, theatre, etc., on the plan of the Co-operative Home Club's; Messrs. Hubert Pirsson & Co. being the architects and originators of the scheme.

STORES.—On the s w cor. of Broadway and Lispenard St., a six-story and basement brick store, about 35' x 100', irregular shape, is to be built for the Patrick Dickie Estate, from designs of Mr. John G. Frague.

The Colwell Lead Company propose to build a six-story building for their business purposes, on the n w cor. of Sixth Ave. and Thirty-ninth St.
The building No. 3 West Forty-second St. is to be altered into a store, from designs of Mr. James Stroud.

SYNAGOGUE.—The Congregation of Bnai Jeshurun propose to build a synagogue on the west side of Madison Ave., 25' s of Sixty-fifth St., on a lot 75' x 95'.

BUILDING PERMITS.—West Thirty-fifth St., Nos. 147, 149 and 151, 3 six-story brick flats, tin roofs; cost, each, \$35,000; owner, Maria L. Olliffe, One Hundred and Thirtieth St., cor. Fifth Ave.; architect, Geo. Ed. Harding.

Washington St., Nos. 538 and 540, two-story brick workshop, gravel roof; cost, \$9,000; owners, Peter M. Oshneis & Co., 18 Beach St.; architect, Wm. Graul.

South Fifth Ave., Nos. 159 and 161, six-story brick store, metal roof; cost, \$45,000; owners, Trustees of P. Lorillard, No. 3 Mercer St.; architect, John B. Snook.

Broadway, s w cor. Lispenard St., six-story brick and iron front store, tin roof; owner, Estate of Patrick Dickie; architect, John G. Frague.

One Hundred and Thirty-fifth St., s s 125' e Lincoln Ave., five-story brick tenement, tin roof; cost, \$10,000; owner, Michael Kelly, One Hundred and Thirty-sixth St., near Lincoln Ave.; architect, Arthur Armand.

Seventy-ninth St., s w cor. Lexington Ave., 8 four-story brownstone front buildings, tin roofs; cost, each, \$25,000; owner, James A. Frame, 105 East Seventy-ninth St.; architect, Thom & Wilson.
ALTERATIONS.—Second Ave., e s Ninety-sixth and Ninety-seventh Sts., build additional stalls on third-story; cost, \$6,000; owner, Second Ave. R. R. Co., on premises; architect, John G. Frague; carpenter, Jno. Duke.

Hester St., No. 23, rear, two-story brick extension and interior alterations; cost, \$2,500; owner, Kalman Lusky, No. 10 Norfolk St.; architect, Wm. Grant.

West Thirty-ninth St., Nos. 660 and 662, raise one-story; cost, \$2,500; owner, Jas. McClenahan, on premises; architect, C. F. Kilder, Jr.

Philadelphia.

BUILDING PERMITS.—North Tenth St., No. 2310, two-story back building, 12' x 34'; Mrs. B. Ritter, owner.

Market St., No. 927, two-story addition to store, 24' x 50'; J. B. Epstein, superintendent.

Chestnut St., w of Third St., bank-building, 30' x 178'; Furness & Evans, architects.

ALTERATIONS.—Alteration and addition to residence of G. Ralston Ayer, Esq., cor. Twenty-second and Venango Sts.; cost, about \$7,000; plans by Hazlehurst & Huekel, architects.

COMPETITION.

PUBLIC LIBRARY BUILDING.

[At Boston, Mass.]
The Committee on Public Library, having been authorized to procure plans for a new public library building, to be erected on the lot bounded by Dartmouth Street, St. James Avenue and Boylston Street, and being desirous of interesting architects to produce the best plan for the same, hereby offer four premiums of \$4,000, \$3,000, \$2,000, and \$1,000, respectively, to the authors of the four best designs, according to the order of their merit.

The plans for which premiums are awarded will become the property of the city, with the right to use the whole or any part, or any modification thereof, without further claim from the authors for compensation or employment.
All designs must be sent to the Trustees of the Public Library on or before June 1, 1884.

Further particulars may be had by applying to William H. Lee, Clerk of Committee, City Hall.

For the Committee,
CHARLES V. WHITTEN,
Chairman.

PROPOSALS.

PRISON BUILDING.

[At Stillwater, Minn.]
Bids will be received at the warden's office, Minnesota State Prison, until Thursday, January 21st, at 12 M., of that day, for the erection of a building 50' x 150', three stories high; said building to be built of brick, and in accordance with plans and specifications made by A. M. Radcliff, architect, and which plans can be seen at the warden's office in Stillwater, or the office of A. M. Radcliff, St. Paul. Bids are requested to be made, first, on the basis of cash payments for said work when completed; second, on the basis of payment on January 1st, 1885. The right is reserved to reject any and all bids.
By the Board.
E. G. BUTTS,
President Board Inspectors.

WORK-HOUSE.

[At St. Paul, Minn.]
Sealed proposals will be received at the office of the St. Paul work-house, 55 East Third Street, until 10 A. M., February 13, 1884.

For iron-work at St. Paul work-house.
Separate bids will be received for the iron cells, and iron-work in brick cells in basement complete, and for labor only.

Separate bids will be received for window gratings, and separate bids for all stair and iron doors in walls leading to dining-room and court. The time of the completion of the work must be stated in the bid.

A bond of 20 per cent of the bid must accompany each bid.

The Board of the St. Paul work-house directors reserves the right to reject any and all bids.

Plans and specifications can be seen at the office of E. A. Bassford, architect, Gilliland Block.

Bids should be addressed:
GEORGE W. LAMSON,
President Board of St. Paul Work-House Directors,
424 55 East Third Street, St. Paul, Minn.

STONE AND BRICKWORK; also, IRON FENCES, GATES, RAILINGS, ETC., FOR APPROACHES.

[At Topeka, Kan.]
OFFICE OF SUPERVISING ARCHITECT,
TREASURY DEPARTMENT,
WASHINGTON, D. C., January 18, 1884.

Sealed proposals will be received at this office until 12 M., on the 6th day of February, 1884, for furnishing and setting in place the stone posts, etc., for fences and gates, street curbing, sidewalks, grading and sodding of lot. Also, for furnishing and fixing in place the iron fences, gates, railings and gratings required for the approaches to the court-house, etc., at Topeka, Kansas, in accordance with drawings and specifications, copies of which (for either class of work) and any additional information may be had on application at this office or the office of the Superintendent.
M. E. BELL,
Supervising Architect.

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PIG-LEAD, ETC.

[At St. Paul, Minn.]
OFFICE OF THE BOARD OF WATER COMMISSIONERS,
ST. PAUL, MINN., January 17, 1884.

Sealed proposals will be received at the office of the Board of Water Commissioners of the City of St. Paul, until 12 M., February 4, 1884, for furnishing and Board the following pig-lead and hump packing: 50 tons of pig-lead, with the privilege of 50 tons additional; 4,000 pounds of clear, sound hump packing, with privilege of 4,000 pounds additional.

The lead shall be of the best quality of pure, soft lead in every respect suitable for filling water-pipe joints, and to be delivered in car-load lots f. o. b. in St. Paul, within fifteen days after date of order, but 18 tons of lead and 500 pounds of hump-packing must be delivered by March 15, 1884. All to be ordered before October, 1884.

Payments will be made by monthly estimates, but no payments will be made before July 1, 1884. Separate bids will be received for the lead and hump packing, and must be accompanied with a bond of 20 per cent of amount of the bid.

The Board reserves the right to reject any and all bids.
JOHN CALFIELD, Secretary,
Board of Water Commissioners.

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BRIDGE.

[At Logansport, Ind.]
December 25, 1883.

Sealed proposals will be received by the Commissioners of Cass County, Indiana, at the Auditor's office in Logansport, Indiana, until 12 o'clock noon, on the 30th day of January, 1884, for the erection of a wrought-iron bridge across the Vabash River near Eighteenth Street, in the City of Logansport. Said bridge to have four spans of about 125 feet each, with one roadway twenty feet clear width; the bridge to be of wrought-iron beams, capacity of bridge to be one hundred pounds per square foot on roadway, exclusive of bridge weight; no iron to be strained over 15,000 pounds per square inch in tension, and 8,000 pounds per square inch in shearing; and 9,000 pounds per square inch in Gordon's formula for compressive strains. Builders must furnish full plans and dimensions of girder specifications, giving forms and dimensions of girders, and giving weight of bridge with maximum strains of under the specified load, and the cross-section of each principal part in square inches. Said bridge same to be furnished and laid by the contractor. Bids to be made per lineal foot of extreme length of said structure. Proposals not in accordance with this advertisement will not be considered, and the right is reserved to reject any and all bids.

By order of the Board of Commissioners of Cass County.
HARRY TORR, Auditor.

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SUMMARY OF THE WEEK.

Baltimore.

Church.—W. F. Weber, architect, has prepared drawings for the German Lutheran church to be erected on the cor. of Hanover and Hamburg Sts. It is to be built of brick, with stone and terra-cotta finish, 70 x 90, style, Gothic; seating capacity, nine hundred; cost, \$25,000.

Buildings Permits.—Since our last report fourteen permits have been granted, the more important of which are the following:

C. H. Blanch, 2 two-story brick buildings, s w cor. Hudson and Hair Sts.; two-story brick building, n s Hudson St., w of Potomac St.; and 2 two-story brick buildings, s Lancaster St., e of Potomac St.
Chas. Seward, two-story brick building, s Monument St., between Bond and Dallas Sts.
Jacob Heilmann, three-story brick building, w s Broadway, between Bank St. and Eastern Ave.
Richard Carruthers, two-story brick stable, in rear of s Baltimore St., between Stricker and Calhoun Sts.
Max & Noe, two-story brick building, s w cor. Monument St. and East Ave.
F. C. Fossett, two-story brick building, s s Belair Ave., e of Washington St.
J. H. Thibodeau, three-story brick building, s s Caroline St., between Thames and Lancaster Sts.
George W. Hopper, 3 three-story brick buildings (square), s Fulton St., commencing s e cor. Saratoga St.
A. Giblin, 4 two-story brick buildings, w Patterson Park Ave., between Jefferson & McKelderry Sts. The Labor Report quotations remain unchanged.

Boston.

PUBLIC BUILDINGS.—Appropriations for the following new buildings are already provided for by the City Council:

Primary school-house, Main St., Charlestown; cost, \$42,000.
Primary school-house, Parker St.; cost, \$30,000.
Primary school-house, Blossom St., land and building; cost, \$100,000.
Repairs and alterations of Engine-House No. 7; cost, \$5,000.
Land has been purchased on Minot St., Dorchester, as a site for a grammar school-house, at a cost of \$5,000.

A site also has been purchased on Savin Hill Ave., for a primary school-house, at a cost of \$5,000.

The estimated valuation of the several county and public buildings and school-houses, including furniture, land, etc., is as follows:

County buildings; cost, \$2,840,500
Public buildings; cost, \$5,701,800
School-houses; cost, \$5,541,900
Total, \$14,084,200

Brooklyn.

Buildings Permits.—Decatur St., s s, 20' w Summer Ave., 2 two-story brownstone front dwellings, tin roofs; cost, each, \$7,000; owners, architects and builders, Jas. Ashfield & Son, 1233 Fulton St.
Halsey St., n s, 30' w Bond Ave., two-story and basement brick dwell., tin roofs; cost, \$4,000; owner and builder, Geo. B. Woldean, 1908 Atlantic Ave.; architect, Amel Hill.

Prospect St., n s, 16' 8" w Albany Ave., 2 two-story brick dwellings, felt, cement and gravel roofs; cost, each, \$3,000; owner, J. Herod, 12-9 Atlantic Ave.; architect, A. Hill; builders, Ashfield & Son.
Jefferson St., n s, e cor. Central Ave., 4 three-story frame stores and tenements, tin roofs; cost, each, \$4,000; owner, Leonard Eppig, Central Ave.; architect, Frank Holmberg; builder, not selected.

Leaven St., n s, 12' 6" w Broadway, three-story frame double tenement, tin roof; cost, \$1,200; owner, Westcotts Durrahachid, Meserole St.; architect, Frank Holmberg.

Manhattan Ave., No. 209, w s, 22' 5" Meserole Ave., three-story frame store and tenement, gravel roof; cost, \$4,500; owner, Wm. H. Graham, 211 Manhattan Ave.; architect, F. Weber; builders, John Cushman and John Fallon.

Diamond St., w s, 30' s Nassau Ave., 2 three-story frame tenements, gravel roofs; cost, \$5,000 each; owners, J. J. Stanton and Thomas Koppie, 73 Calver St. and 14 Oakland St.; architect, Thos. Koppie; builders, J. J. Van Riper and Thos. Koppie.

Levis Pl., e s, 9' s Herkimer St., 5 two-story frame dwellings, gravel roofs; cost, \$3,500 each; owner, Karl Peter, 435 East Eighty-first St., New York; architect, John Schilling; builders, Jos. Peters and Chas. Lehrentz.

Twenty-seventh St., n s, 20' w Fourth Ave., three-story brick tenement, felt and gravel roof; cost, \$4,500; owner, Michael Kenney, 202 Twenty-first St.; builder, Chas. Long.

Quincy St., s s, 12' 6" w Summer Ave., 6 two-story Philadelphia brick dwellings, tin roofs; cost, \$5,000 each; owners and carpenters, Duryea & Louis, Fulton St., near Verona Pl.

Bedford Ave., e s, 72' s Fulton St., three-story Philadelphia brick store and dwell., tin roof; cost, \$5,000; owner, Philip D. Mason, Fort Greene Pl.; architect, Amel Hill; builders, P. Sullivan and D. H. Fowler.

Chauncey St., s s, 27' 6" w Patchen Ave., three-story frame tenement, felt and gravel roof, cost, \$4,000; owner and builder, Michael Sullivan, 422 Hancock St.; architect, Amel Hill.

Stockholm St., n s, 17' 6" w Evergreen Ave., 3 two-story frame dwellings, tin roofs; cost, each, \$2,000; owner and carpenter, Andrew Schmidt, 225 Lynch St.

ALTERATIONS.—Edison St., No. 174, and Henry St., Nos. 53 and 55, repair damage by fire; cost, \$5,000; owner, H. H. Hegeman, Ninth Ave., cor. Thirty-fourth St., New York City; builder, T. A. Kemsen.

Chicago.

Buildings Permits.—J. M. Gamble, two additional stories, 20 North Clark St.; cost, \$10,000; architect, Thomas.
Andrew Pearson, 2 cottages, 144 and 146 DeKalb St.; cost, \$4,000.

L. Robinson, two-story store and dwell., 714 West North Ave.; cost, \$3,000.

R. Lancaster, 3 two-story dwellings, 2340-2344 Groveland Park Ave.; cost, \$4,000; architect, C. M. Palmer; builder, C. Busby.

M. D. Smith, 3 two-story and basement dwellings, 331 to 333 Park Ave.; cost, \$9,000; architect, J. W. Cassel; builder, C. Champion.

C. Spearin, two-story flats, 587 and 589 Warren Ave.; cost, \$6,000; architect, M. F. Wolf; builder, N. Cameron.

A. Stulmcher, 2 two-story stores and dwellings, 2267 and 2269 Wallace St.; cost, \$1,300; architect, J. Frank; builder, M. Schmidt.

M. Dierks, two-story and cellar flats, 235 Augusta St.; cost, \$2,500.

Denver, Col.

Buildings Permits.—The total number of buildings erected during 1883 is 619. Total valuation, \$2,572,268. Of these, 33 buildings aggregated \$783,000 in cost. The permits are classified as follows:

Brick business blocks, 12; brick stores, 21; brick residences, 301; frame stores, 2; frame residences, 52; brick stables, etc., 176; frame stables, etc., 22.

Grand Rapids, Mich.

Buildings Permits.—Three-story brick block, for Mrs. M. V. Aldrich; cost, \$10,000.

Grace Church, rectory, cor. Cherry and Lafayette Sts.; cost, \$3,000.

George Seymour, two-story house, Paris Ave.; cost, \$2,500.

Henry Ward Beecher, two-story house, Paris Ave.; cost, \$2,500.

John Jewett, two-story house, Paris Ave.; cost, \$3,000.

A. Doak, house, Union St.; cost, \$3,000.

Henry Billen, house, South Division St.; cost, \$2,500.

John Stewart, house, Lafayette St.; cost, \$3,200.

Walter Giddings, house, Union St.; cost, \$2,500.

D. S. Hopkins, two-story house, Paris Ave.; cost, \$3,500.

D. C. Underwood, house, cor. Wealthy and Paris Aves.; cost, \$4,000.

Henry Billen, house, Union St.; cost, \$2,500.

Andrew Verburg, house, Jefferson Ave.; cost, \$2,500.

Chas. Sligh, house, Sheldon St.; cost, \$2,500.

D. S. Hopkins, architect for all the above.

New York.

Houses.—Mr. A. Vantine will build, on the s s of Sixty-ninth St., 2 four-story brownstone houses, to cost \$10,000.

Mr. John Livingston proposes to build 9 three-story and basement brownstone houses, on the s s of Forty-sixth St., between Eighth and Ninth Aves., to cost about \$75,000; Mr. J. H. Valentine is preparing plans.

Flats.—Mr. Morris Steinhardt proposes to build eight five-story brownstone flats, 27 x 85' each, on the n w cor. of First Ave. and Sixty-fifth St., at a cost of about \$150,000; and on the s s of Fifty-second St., 300' w of Ninth Ave., he will build 8 five-story tenements (3 on Fifty-second St. and 5 on Fifty-third St.), at an estimated cost of \$100,000.

For Mr. Peter Albert, 2 five-story double flats, brick and stone, 27 x 80' each, are to be built on the s s of Forty-first St., between Second and Third Aves., from designs of Messrs. Thoms & Wilson; cost, about \$40,000.

Mr. F. Donahue will have 5 five-story brick tenements, 27 x 80' each, built on the w cor. of Broadway and One Hundred and Fortieth St., from designs of Mr. J. H. Valentine; cost, about \$90,000.

Office Buildings.—Plans for the building to be erected for the Standard Oil Company, previously reported as to be built at 24 and 26 Broadway, are being drawn by Mr. E. L. Roberts, assisted by Mr. J. M. Farnsworth. It is to be 60' x 200', at least ten stories high, and will probably cost in the neighborhood of \$400,000.

Buildings Permits.—East Forty-seventh St., Nos. 321 and 323, three-story frame storage-building, gravel roof; cost, \$20,000; owner, Henry Clauson & Son Brewing Company, on premises; architect, Adam Weber.

Courtland Ave., e s, 23' s One Hundred and Fifty-fifth St., three-story frame dwell. and store, tin roof; cost, \$1,400; owner and architect, G. H. Hermann; builders, John Diehl and Fred Schwab.

First Ave., s e cor. One Hundred and Fifteenth St., 4 five-story brick tenement and store, tin roof; cost, \$10,000; owner, Jno. O'Brien, 510 East One Hundred and Twenty-first St.; architects, William Fernschild & Son.

First Ave., e s, 20' s One Hundred and Fifteenth St., 5 five-story brick tenements and stores, tin roofs; cost, each, \$12,000; owner and architects, same as last.

One Hundred and Fifteenth St., s s, 75' s First Ave., four-story brick tenement, tin roof; cost, \$8,000; owner and architects, same as last.

Purest Ave., e s, and Tinton Ave., w s, 115' s Denman Pl., 12 three-story frame dwellings, tin roofs; cost, each, \$1,800; owner and architect, John W. Decker, 441 Forest Ave.; architect, W. W. Gardner.

Fifth Ave., w s, 20' s One Hundred and Fortieth St., four-story brick tenement and store, tin roof; cost, \$9,000; owner, Carl Sotzschek, 311 Willis Ave.; architect, Carl Pfeiffer; builder, not selected.

McDonald St., n s, 22' s Five-story brick tenement, tin roof; cost, \$14,000; owner, Ernest Ohl, 60 Second Ave.; architect, G. W. Kient.

One Hundred and Seventy St., n s, 70' w Second Ave., 2 five-story brick tenements and stores, tin roofs; cost, \$16,000; owner, Wilhelmine Juch, 307 East One Hundred and Sixth St.; architect, C. V. Diehl; builders, Ed. Hammer and P. Duden.

Arkansas St., s s, 20' s One Hundred and Eighty-fourth St., alterations to front and on basement, first and second stories, for business purposes; cost, \$2,000; lessee, S. E. Mead & Son, 254 Fourth Ave.; architects, Berger & Haynes.

St. Mark's Pl., No. 71, internal alterations for flats; cost, \$3,000; owner, Geo. C. Stobling, 45 St. Marks Pl.; architect, Julius Kallner.

Third Ave., No. 920, one and basement story brick extension, etc.; cost, \$3,500; owner, Henry S. Markert, 191 Waverly Pl.; architect, Wm. Graul.

Broadway, s e cor. Exchange Pl., repair damage by fire; cost, \$5,000; owner, John J. Astor, 21 West Twenty-sixth St.; builder, John Downey.

West One Hundred and Twenty-fifth St., No. 255, three-story brick extension; cost, \$3,000; owner, Mary E. Kwing, on premises; architect, Geo. Codling.

East Twenty-ninth St., Nos. 302 and 304, raise one story, etc.; cost, \$10,000; owner, D. M. Koehler, 129 East Twenty-seventh St.; architects, Hugo Katka & Co.; builder, not selected.

East Broadway, No. 177, three-story and basement brick extension and internal alterations; lessee, Mina Harris, on premises; architect, John B. Franklin.

Broadway, No. 13, raise roof; also a one and basement-story brick extension on rear, new front and internal alterations; cost, \$12,000; owner, Chas. F. Fay, Weehawken, N. J.; architect, W. W. Gardiner.

Los Angeles, Cal.

Buildings Permits.—The following is a list of some of the buildings for which the plans have been drawn by B. Keene, architect:

Four-story building, Post Block, Spring St.; cost, \$12,000.

Four-story building, Boniller Block, Spring St.; cost, \$22,000.

Four-story school-building, Spring St., for the Educational Board; cost, \$28,000.

Second Presbyterian church, East Los Angeles; cost, \$7,500.

Two-story house, Main St., Downey tract, for Pedro Fossas; cost, \$3,200.

Two-story house, Ninth St., Downey tract, for Pedro Fossas; cost, \$2,800.

Two two-story houses, Fort St., Downey tract, between Ninth and Tenth Sts., for Pedro Fossas; cost, \$3,500.

Two-story house on Main St., between Pico and California Sts., for Barclay; cost, \$3,500.

George D. Rowan will shortly put up four houses near the corner of Virgin and New High Sts.

Mr. Ward has started three fine cottages on Wall St., near Fifth St.

Six two-story houses are to be built on Pico St., w of Pearl St.

Miss Graney is preparing to build on her lots in West Los Angeles.

Mr. Embury will shortly build four houses on the Hollenbeck tract.

T. S. Hughes has purchased two lots in the Glassell tract, 60' x 150' each, and will immediately erect a house on each lot.

St. Louis.

Buildings Permits.—Seventy-seven permits have been issued since our last report, twenty-two of which are for unimportant frame houses. Of the rest, those worth \$2,500 and over are as follows:

Green Tree Brewery Co., two-story brick wash-house; cost, \$3,000; Jungensfeld, architect.

Ed. Pipe, two-story brick dwell.; cost, \$3,000; G. W. Pipes, architect; Ed. Pipe, contractor.

M. P. Kiddle, two-story brick dwell.; cost, \$10,000; C. K. Hamsey, architect; contract sublet.

E. A. Merriweather, three-story brick dwell.; cost, \$6,000; J. B. Legg, architect; J. Stimpel, contractor.

Phoenix Planing Mill Co., two-story brick warehouse; cost, \$3,000; Phoenix Planing Mill Co., contractor.

F. H. Goss, 3 separate two-story brick dwellings; cost, \$4,500 each; J. B. Legg, architect; F. H. Goss, contractor.

J. Allan, two-story brick dwell.; cost, \$3,000; Kerr & Allan, contractors.

J. S. Thomas, 3 separate two-story brick dwellings; cost, \$10,000 each; J. S. Thomas, architect and contractor.

St. Louis Mutual House-Building Co. No. 3, two-story brick dwell.; cost, \$3,000; Mortimer, architect; M. Britt, contractor.

St. Louis Mutual House-Building Co. No. 3, two-story brick dwell.; cost, \$3,200; Mortimer, architect; M. Britt, contractor.

St. Louis Mutual House-Building Co. No. 3, two-story brick dwell.; cost, \$3,200; Mortimer, architect; M. Britt, contractor.

S. C. Van Houten, 2 separate two-story brick dwellings; cost, \$5,000 each; J. Stewart, architect and contractor.

Simson Ray, 3 separate two-story brick dwellings; cost, \$5,000; J. Stewart, architect and contractor.

Camp Spring Milling Co., three-story brick mill; cost, \$5,000; J. Stewart, architect and contractor.

J. A. McKelghin, three-story brick dwell.; cost, \$10,000; J. Stewart, architect and contractor.

J. H. McLean, four-story brick store and factory; cost, \$20,000; J. Stewart, architect and contractor.

Mulvaney Saving Bank, three-story brick bank building; cost, \$12,000; A. Beinke, architect; M. Kerkisch, contractor.

E. O. Stauder, two-story brick dwell.; cost, \$7,000; A. Beinke, architect and contractor.

E. H. Benz, two-story brick dwell.; cost, \$3,000; builder, H. Ellerbaum.

Dr. C. I. Rohlfing, two-story brick dwell.; cost, \$4,500; architect, C. F. May; builder, J. P. Richters.

Theodore Rick, two-story brick dwell.; cost, \$3,500; architect, W. G. Gains; builder, F. W. Lehtinen.

Wm. C. Hank, two-story brick dwell.; cost, \$3,150; builder, J. E. Truitt.

F. Koch, two-story brick dwell.; cost, \$4,000; architect, B. J. Gosses; builder, A. Bauer.

nothing substantial; and the advancement but also to the community at large will gain greatly thereby, finally,

"ESPRIT" & CORPS.

has addressed a letter to the committee, requesting further employment in regard to the design, and asking also the design.

E-FORK.

WASHINGTON, D. C., January 22, 1884.

AMERICAN ARCHITECT.

burns wood in an open fireplace, the market are too convenient for the use of the old-fashioned iron fire-irons. I have procured one. It is with four-inch times, reading three or four times the fork is three feet; the times of tempered steel points so as to be

IRON FORK.

which if properly formed they will be of considerable weight. They are released

not.

like any log or stick ordinarily in a

be of square iron twisted, the top

knob, cross-bar or handle. Weight

point. I enclose a sketch.

attest his fuel-fork are to be

of P. ry.

M. C. MEIGS.

CITY BUILDINGS.

POTOMAC, N. Y., Jan. 21, 1884.

AMERICAN ARCHITECT:

past you have given your readers, in interesting variety of the elevations of churches, hotels and cheap houses, did now return, after a long absence, made in architecture there. The work in the construction of apartment-houses. Please give us some of the apartment-houses or flats, and oblige,

A CONSTANT READER.

about our illustrations as that expressed in the few illustrations for the current satisfactory variety of subjects, without any dwelling-houses; and nothing would contribute to help us to keep this class, pre-empting as it is, somewhat in the back of the AMERICAN ARCHITECT.

WINDOWS.

MORRISTOWN, N. J.

AMERICAN ARCHITECT:

any advice as to permanent double panes. Thanks for any information.

Mrs. J. C. P.

side of houses, are sometimes made in pairs for two complete sets of sashes. Of course the usual depth, and needs a break. A simpler substitute for this arrangement is to use the lights of glass being half an inch or so right against wind as the ordinary

—Eds. AMERICAN ARCHITECT.]

pipes are made by passing an endless of which equals the length of the tube, half, and then rolling it tightly and required diameter. When the number to afford the desired thickness, the tube side sprinkled with fine sand and the old core is drawn out and the inside composition. In addition to being at such cheaper than iron, these pipes are used are scarcely three-fifths of an inch less than more than fifteen times thicker, not be broken by settlement, nor when in material being a bad conductor of heat. — The Master Herald.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report seven permits have been granted: the more important of which are the following:—
 Aug. Cashmeyer & Son, two-story brick carriage-house, s w Madison St., w of Central Ave.
 Frank A. Warner, three-story brick building, e s Valley St., between Middle and Chase Sts.
 Moses Fox, two-story brick stable, s w cor. Bond and Lombard Sts.
 Geo. W. Donahue, 20 two-story brick buildings, w s Bradford Alley, n of Fayette St.
 A. C. Hall, two-story brick office, w s Eden St., between Baltimore and Lombard Sts.
 John Algrity, 3 three-story brick buildings, s s Chew St., w of Broadway.

Boston.

BUILDING PERMITS.—*Brick.*—Beacon St., Nos. 18 and 20, Ward 10, for Boston University, store and offices, brown-stone, 40' 11" x 14', six-story flat; all, 12' x 32' 6"; J. E. Levering, builder; W. G. Preston, architect.
 Myrtle St., No. 130, Ward 9, Joseph Comed, tenement, 20' 6" x 50' 6", four-story flat; John Mack, Jr., builder.
 Essex St., cor. Newbury St., Ward 11, for Working Union of Progressive Spiritualists, church, 82' x 108', two-story pitch; Norcross Bros. contractors.
 Beacon St., No. 98, Ward 9, for J. Quincy Brown, stable, 20' x 44', one-story mansard; J. J. Lyons, builder.
 Appleton St., near Berkeley St., Ward 10, for J. G. Case, tenement, 24' x 60', four-story flat; N. E. O. Sullivan, builder.
 Cotton St., cor. Shirley St., No. 20, for Howard Watch Co., manufacturing building, 37' x 102', four-story flat; oil, 34' 6" x 52'; Cooch & Gray, builders.
 Castle St., No. 68, cor. Mayo St., Ward 10, for Boston Building Association, hotel tenement, 48' x 84', five-story flat; G. W. & A. G. West, builders.
 Wood — Rutherford Ave., No. 151, Ward 5, for Donovan & Brook, tool-maker, 20' x 50', one-story flat; Donovan & Brook, builders.
 Warren St., No. 21, for Frank Ferdinand, mercantile, 32' x 50' and 70' x 87', three-story flat; J. W. Coburn & Co., builders.
 Frothingham Ave., Nos. 23 and 25, Ward 5, for W. H. Parks, 2 stables, 19' x 30', two-story flat; G. M. Starbird, builder.
 H St., near East Fifth St., Ward 14, for Wm. P. Cross, 2 dwellings, 24' x 35', three-story flat; Wm. P. Cross, builder.
 Rockwell St., near Milton Ave., Ward 24, for Mary E. Moulton, dwell., 20' and 28' x 32' 6", two-story pitch; E. F. Moulton, builder.
 Siegel Ave., near Vernon St., Ward 19, for Valentine Book, carpenter-shop, 12' x 18' and 21' x 35', three-story flat.
 C St., near Spring Park Ave., Ward 23, for John C. Betts, dwell., 20' x 42' 4", two-story pitch; John C. Betts, builder.
 East Fifth St., Nos. 532 and 534, Ward 14, for Trustees Hayes Fund, 2 dwellings, 22' x 40', two-story flat; Wm. T. Eaton, builder.
 L St., near East Seventh St., Ward 14, for Isaac Riley, 4 dwellings, 20' x 40', two-story flat; Wm. T. Eaton, builder.
 Emerson St., near L St., Ward 14, for Wm. T. Eaton, 2 dwellings, 22' x 40', two-story flat; William T. Eaton, builder.
 Commercial St., near Preston St., Ward 24, for D. J. Cutler, dwell., 32' x 50' 6", two-story flat.
 Washington St., near Keyes St., Ward 23, for Hannah E. Kennedy, dwell., 21' x 35', two-story pitch; Michael Kennedy, builder.
 Pratt St., near Linden St., Ward 25, for L. Dutton, 2 dwellings, 19' 6" x 42' 6", two-story pitch; W. R. Cameron, builder.
 Washington St., Nos. 2668 and 2670, Ward 21, for J. E. Ryan, tenement and store, 30' x 30', three-story flat; Valie & Julien, builders.
 Heath Pl., near Heath St., for Thomas Connor, dwell., 22' x 32' 6", three-story flat; Thomas Connor, builder.
 East Fifth St., No. 687, near M St., Ward 14, for L. D. Cardill, wagon-shed, 50' x 90', two-story flat.
 Warren Ave., on Bridge Pier, Ward 5, office and boiler-house, 32' x 35', two-story flat.
 West First St., Nos. 17 and 19, Ward 13, for Patrick Lally, storage, 30' x 40', one-story flat.
 Yale St., near Loring St., Ward 15, for Choate, Burnham & Son, stable, 32' x 70', two-story flat; Geo. W. Rigby, builder.

Brooklyn.

BUILDING PERMITS.—*Brick.*—Bay St., No. 80, s s, 150' o Franklin St., four-story frame tenement, gravel roof; cost, \$4,500; owner, John Swartz, on premises; architect, Fred. Wober; builders, John Halford and Fort & Walker.
 Thirteenth St., s s, and Fourteenth St., n s, 90' o Sixth Ave., 4 two-story brick dwellings, tin roofs; cost, \$1,000 each; owner and builder, Sampson B. Oulton, 165 Fourteenth St.; architect, Arthur Sterns.
 Sixth Ave., s w cor. Fourteenth St., and Sixth Ave., s w cor. Fourteenth St., 2 three-story brick stores and flats, tin roofs; cost, \$5,000 each; owner and builder, Sampson B. Oulton, 165 Fourteenth St.; architect, Arthur Sterns.
 Bucknick Ave., s e cor. Moore St., 2 three-story frame stores and tenements, tin roofs; cost, \$9,000; owner, Chas. Diemer, on premises; architect, Frank Holmberg; carpenter, Chas. Diemer.
 Eighth St., n s, s s, 400' o Fifth Ave., two-story and basement brick dwell., tin roofs; cost, \$1,000; owner, Louis Loiman, Jr., Seventeenth St., between Fourth and Fifth Aves.; architect and builder, W. J. Conway.
 Front St., n w cor. Jay St., five-story brick store and tenement, tin roof; cost, \$14,000; owner, Hugh O'Reilly, 45 West Sixteenth St., New York City; architect, Wm. Graul.
 Front St., n s, 22' o Jay St., five-story brick store

and dwell., tin roof; cost, \$9,000; owner, Hugh O'Reilly, 45 West Sixteenth St., New York City; architect, Wm. Graul.
 Georgia St., s s, 100' o Central Ave., one-story brick warehouse for brewery, tin roof; cost, \$3,500; owner, Leonard Eppig, Central Ave.; architect, Frank Holmberg.
 Oakland St., No. 316, s s, 125' o Green St., three-story frame tenement, gravel roof; cost, \$3,800; owner, Patrick Monahan, Green St.; architect, Jas. Mulhally, builder, Gately & Sims and Jas. Dolg, Jr.
 North Tenth St., n s, about 400' o First St., one-story frame open shed, gravel roof; cost, \$3,000; owner, Pratt Manufacturing Co., foot North Twelfth St.; architect, F. E. West; builders, Jenkins & Gillies.

Chicago.

BOARD OF EDUCATION ARCHITECT.—The Board of Education has elected J. J. Flinders as architect for the ensuing year, fixing his compensation at \$800 for each school-building erected.

The architect was instructed to prepare plans for fifteen-room school-houses, for the Paulina, Walnut, Snell, and Lime Street school lots recently purchased.

BUILDING PERMITS.—W. Wagg, two-story store and flats, 348 Robey St.; cost, \$4,000; architect, Ray; builder, W. H. Cameron.

W. Wagg, two-story store and flats, 350 Robey St.; cost, \$3,000; architect, Ray; builder, W. H. Cameron.

H. Potratz, two-story dwell., 223 West Eighteenth St.; cost, \$3,500; architect and builder, H. Potratz.

F. Osterbeck, two-story dwell., 23 Plum St.; cost, \$2,000.

Mrs. Preston and A. M. Hall, 2 two-story dwellings, 934 and 936 West Adams St.; cost, \$8,000.

J. W. Cassel, 2 two-story dwellings, 1016 West Adams St.; cost, \$5,000.

L. S. Kirkwood, two-story rear addition, 113 and 115 East Chicago Ave.; cost, \$8,000.

Louis Welch, three-story dwell., 451 Huribut St.; cost, \$5,000; architects, Burling & Whitehouse; builder, L. Welch.

J. W. Kitch, three-story store and dwell., 267 Wells St.; cost, \$6,000; architect, Melster; builder, L. Welch.

New York.

BUILDING NOTES.—The January permits show a great falling off in number and amount as against the two previous years, and architects are not as busy as usual at this season of the year.
 CHURCH.—A stone church, 44' x 130', to cost not less than \$50,000, is to be built by the New York City Mission and Tract Society, on the s e cor. of Broome St. and Central Market Pl.

HOUSE.—On the n e cor. of Madison Ave. and Sixty-fifth St., on a plot of ground 110' x 125', Messrs. Charles Buek & Co. will build first-class dwellings.
 On the south side of Sixty-fifth St., 200' o of Ninth Ave., 2 two-story basement and attic brick houses, 18' x 50' each, are to be built by Messrs. E. & C. Fisher, from designs of Mr. Louis Falk.

TENEMENTS.—A number of cheap tenements are every week projected, plans for which are generally paid for by a lump sum, and over which the architect has no control.

BUILDING PERMITS.—*Second Ave., n e cor. One Hundred and First St., 4 five-story brick tenements and stores, tin roofs; cost, each, \$15,000; owner, Wilhelm Juch, 207 East One Hundred and Sixth St.; architect, C. V. Heils; builders, Ed. Hammer and C. Duden.*

One Hundred and First St., n s, 70' o Second Ave., 1 five-story brick tenements, tin roofs; cost, each, \$12,000; owner, architect and builders, same as last.

Mulberry St., No. 233, five-story brick tenement, tin roof; cost, \$13,000; owner, Michael Gaffney, 127 Broad St.; architect, Jos. M. Dunn.

Greene St., Nos. 124 to 134, six-story tin warehouses, tin roofs; total cost, \$175,000; owners, Simon Goldenberg, 468 Broome St., and Louis Schoelberg, 481 Broadway; architect, A. Zucker.

Bleecker St., Nos. 410 and 412, five-story brick factory, tin or gravel roof; cost, \$6,500; owner, P. M. Wilson, 144 West Twenty-second St.; architects, D. & J. Jardine; builder, A. Brown.

Tenth Ave., s s, 90' o Fifty-seventh St., 2 five-story brown-stone front flats and stores, tin roofs; cost, total, \$45,000; owner, Wilton H. Rankin, 338 West Forty-seventh St.; architects, Thompson & Wilson.

West Fifty-eighth St., No. 211, five-story brick tenement and store, tin roof; cost, \$18,000; owner, Benjamin Sire, 160 Fulton St.; architect, Wm. Graul.

East Fifty-fourth St., Nos. 223 and 225, one-story brick engine-room and boiler-house, tin roof; cost, \$4,000; owners, Jos. Doelger Sons, on premises; architect, Chas. Stoll.

West Eighteenth St., Nos. 12 and 14, eight-story brick flat, terra-cotta and asphalt roof; cost, \$110,000; owner, the Randolph Co., Latham G. Reed, President, 62 Wall St.; architect, T. M. Clark; builders, David H. King and H. Edgar Hartwell & Co.

Eighty-ninth St., n s, 81' o Lexington Ave., 5 five-story brown-stone tenements, tin roofs; cost, each, \$20,000; owner, Dennis Loomis, 224 East One Hundred and Sixteenth St.; architect, Eugene Parker.

Southern Boulevard, n s, about 300' o Port Chester R. R., two-story frame stable, shingle roof; owner, William Simpson, 51 Chatham St.; architect, L. Brush; builders, N. Worry and C. H. Smith.

Philadelphia.

BUILDING PERMITS.—*South Fourth St., Nos. 125 to 129, six-story office-building, 60' x 81'; Stacy, Reeves & Co., contractors.*

Various alterations and additions complete the list of permits for the week.

COMPETITION.

PUBLIC LIBRARY BUILDING.

(At Boston, Mass.)

The Committee on Public Library, having been authorized to procure plans for a new public library building, to be erected on the lot bounded by Dartmouth Street, St. James Avenue and Boylston Street, and being desirous of interesting architects to pro-

COMPETITION.

duce the best plan for the same, hereby offer four premiums of \$1,000, \$3,000, \$2,000, and \$1,000, respectively, to the authors of the four best designs, according to the order of their merit.

The plans for which premiums are awarded will become the property of the city, with the right to use any part, or any modification thereof, without further claim from the authors for compensation or emolument.

All designs must be sent to the Trustees of the Public Library on or before June 1, 1884.

Further particulars may be had by applying to William H. Lee, Clerk of Committee, City Hall.

For the Committee,
 CHARLES V. WHITTEN,
 Chairman.

PROPOSALS.

SCHOOL-HOUSE.

(At Fergus Falls, Minn.)

FERGUS FALLS, MINN., January 16, 1884.

Until February 15, 1884, the undersigned will receive sealed bids for the building of a brick school-house in Fergus Falls, Minn.

Right reserved to reject any or all bids.

The plans and specifications can be seen at the office of the clerk, and, upon application to him, full information and conditions will be furnished.

CHAS. L. LEWIS,
 Clerk Board of Education.

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LABOR AND MATERIALS.

(At Buffalo, N. Y.)

OFFICE OF SUPERVISING ARCHITECT.

TREASURY DEPARTMENT.

WASHINGTON, D. C., February 3, 1884.

Sealed proposals will be received at this office until 12 M., on the 28th day of February, 1884, for all the labor and materials, bricks and mortar, and setting stone, required to complete the extension of the custom-house and post-office at Buffalo, N. Y., in accordance with drawings and specification, copies of which and any additional information may be had on application at this office or the office of the Superintendent.

M. E. BELL,
 Supervising Architect.

425

CANAL LOCKS.

(St. Lawrence River, Canada.)

DEPARTMENT OF RAILWAYS AND CANALS.

OTTAWA, CANADA, January 21, 1884.

Sealed tenders, addressed to the undersigned and endorsed "Tender for St. Lawrence Canals," will be received at this office until the arrival of the eastern and western mails on Tuesday, the 12th day of February next, for the construction of a lock and regulating weir and the deepening and enlargement of the upper entrance of the Cornwall Canal.

Also for the construction of a lock, together with the enlargement and deepening of the upper entrance of the Rapids Plat Canal, or middle division of the Williamsburg Canals, and the deepening, etc., of the channel at the upper entrance of the Canals.

A map of the head or upper entrance of the Cornwall Canal, and the upper entrance of the Rapids Plat Canal, together with plans and specifications of the respective works, can be seen at the Resident Engineer's office, Dickenson's Landing; and for the plans at the head of the Canals, at the Lock-keeper's house, near the place, and in each case plans, etc., can be seen at this office on and after Tuesday, the 25th day of January, next, where printed forms of tender can be obtained.

Contractors are hereby informed that trial-pits have been sunk on the Cornwall and Rapids Plat sections of the works, and they are requested to bear in mind that tenders will not be considered unless made strictly in accordance with the printed forms, and be accompanied by a letter stating that the person or persons tendering have carefully examined the locality and the nature of the material found in the trial-pits, etc.

In the case of firms there must be attached the actual signatures, the nature of the occupation and residence of each member of the same; and further, a bank deposit receipt for the sum of four thousand dollars must accompany the tender for the Cornwall Canal Works.

The tender for the Rapids Plat works must be accompanied by a bank deposit receipt for the sum of three thousand dollars.

The tenders for the deepening, etc., at the head of the Canals must be accompanied by a bank deposit receipt for the sum of three thousand dollars. The respective deposit receipts (checks will not be accepted) must be endorsed over to the Hon. the Minister of Railways and Canals, and will be forfeited if the party tendering declines entering into contract for the works at the rates and on the terms stated in the offer submitted. The deposit receipts thus sent in will be returned to the respective parties whose tenders are not accepted.

This Department does not, however, bind itself to accept the lowest or any tender.

By order,
 A. P. BRADLEY, Secretary.

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IRON AND SLATE WORK OF STAIRWAYS.

(At Memphis, Tenn.)

OFFICE OF SUPERVISING ARCHITECT.

TREASURY DEPARTMENT.

WASHINGTON, D. C., February 2, 1884.

Sealed proposals will be received at this office until 12 M., on the 27th day of February, 1884, for furnishing and fixing in place, complete, the iron stairways, etc., required for the custom-house and post-office building at Memphis, Tenn., in accordance with drawings and specification, copies of which and any additional information may be had on application at this office or the office of the Superintendent.

M. E. BELL,
 Supervising Architect.

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BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

- 292,152. WINDOW AND DOOR BUTTON. — August Arens, New Britain, Conn.
 292,153. WATER-CLOSET VALVE. — John Demarest, New York, N. Y.
 292,156. CISTERN FOR WATER-CLOSETS. — John Demarest, New York, N. Y.
 292,168. COMBINATION-TOOL. — Albert E. Lytle, Chicago, Ill.
 292,176. SAW FASTENING AND FRAME. — Henry L. Pratt, Brooklyn, N. Y.
 292,184. COMBINATION-TOOL. — William G. Thompson, Brooklyn, N. Y.
 292,189. PAINT-DISTRIBUTER. — John P. Whipple, Milwaukee, Wis.
 292,194. CROSSCUT SAW. — Elias C. Atkins, Indianapolis, Ind.
 292,202. FASTENING FOR MEETING-RAILS OF SASHES. — Jas. Chambers, New Britain, Conn.
 292,210. SPRING-HINGE. — Henry B. Dodge, East Somerville, Mass.
 292,225. SHUTTER-WORKER. — William Hawn, Knoxville, Tenn.
 292,231. TILE-MACHINE. — James W. Penfield, Wiloughby, O.
 292,235. FIRE-ESCAPE. — Joshua C. Stoddard, Springfield, Mass.
 292,238. SCREW-DRIVER. — George E. Gay and John H. Parsons, Augusta, Me.
 292,321. SCAFFOLD AND FIRE-ESCAPE. — Josef Klein, New York, N. Y.
 292,322. FIRE-ESCAPE. — Cyrus A. Knauer, Pottstown, Pa.
 292,328. FIRE-ESCAPE. — Nicholas Lennards, Harvard, Ill.
 292,342. COMPOUND VISE AND LATHE. — James R. McMillan, Philadelphia, Pa.
 292,347. SHINGLE-SAWING MACHINE. — Patrick O'Connor, Tallman, Mich.
 292,354. SHUTTER-WORKER. — Ronello F. Pratt, Everett, Mass.
 292,361. MACHINE FOR DRESSING STONE. — Henry A. Rife, Timberville, Va.
 292,362. RADIATOR. — Louis C. Rodier, Detroit, Mich.
 292,369. SAW-ENVELOPE. — Frederick Schlüchter, East New York, N. Y.
 292,410. WINDOW-SCREEN. — Alfred L. Clark, Dubuque, Iowa.
 292,411. FIRE-ESCAPE. — Alfred L. Clark, Dubuque, Iowa.
 292,413. KILN. — Jacob Pearson Cramp, Finedon, County of Northampton, England.
 292,414. FIRE-ESCAPE. — Augustus S. Currier, Hillsborough, Ill.
 292,416. HINGE. — Joseph Decombe, San Francisco, Cal.
 292,420. CONSTRUCTION OF CISTERN FROM CONCRETE. — William B. Forward, Marion, O.
 292,427. BRICK-KILN. — Willis N. Graves, St. Louis, Mo.
 292,438. SHINGLING-BRACKET. — Stephen Woodward, Delano, Minn.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report twenty permits have been granted, the more important of which are the following:—
 Louis Anft, 4 two-sty brick buildings, w s Castle St., between Monument and McElderry Sts.
 H. Gerbole, two-sty brick stable, in rear n Canton Ave., between Chester and Choptank Sts.
 John Weitzell, 6 two-sty brick buildings, w s Madison Alley, s of McElderry St.
 J. E. Bennett, three-sty brick building, s s Baltimore St., between Glimor and Mount Sts.
 Jas. Floyd, two-sty brick building, rear e s Light St., between Barney and Heath Sts.
 John Crozier, three-sty brick building, in rear No. 109 Eastern Ave. s s.
 Thos. H. Bick, 4 two-sty brick buildings, s s Hoffman St., commencing s e cor. Holbrook St.
 Samuel Hecht, three-sty brick building, e s Bethel St., between Bank St. and Eastern Ave.
 D. & C. S. Stratt, two-sty brick warehouse, n s Hiller St., between East and Forrest Sts.
 A. P. Gora, three-sty brick building, n w cor. Madison Ave. and Orchard St.
 Leonard Kline, two-sty brick building, n w cor. Cary St. and Patterson Lane.
 Chas. Warnick, two-sty brick stable, rear w s Alsquith St., n of Biddle St.

Boston.

BUILDING PERMITS.—*Brick.*—Warren Ave., No. 142, Ward 1, for Edwin B. F. Coon, family-hotel, 21' 8" x 72', four-sty flat; Laming & Drisco, builders.
Wood.—Canterbury St., opposite Huntington St., Ward 3, for Thomas McManus, dwell., 22' x 30', three-sty flat.
 Grove St., Ward 23, for Henry J. Salmon, dwell., 24' x 32', two-sty pitch; John String, builder.

T. Morey, office, 14' x 21', one-sty; Edward T. Morey, builder.
 Maxwell St., near Capen St., Ward 24, for Wm. H. Jackson, mechanical, 22' x 28', one-sty; Wm. H. Jackson, builder.
 Washington St., near Keyes St., Ward 23, for Boston Thread and Twine Co., coal-storage, 32' x 70' and 76', one-sty flat; Chas. Lewis, builder.
 Lamartine St., near Boylston St., Ward 23, for Lorenz Ernst, 2 dwells. and store, 19' x 36' and 24' x 33', three-sty flat; Jacob Luippold, builder.
 Tremont St., near Oak Sq., Ward 25, for E. V. P. Morey, 4 greenhouses, 21' x 70', one-sty pitch; E. V. P. Morey, builder.
 Dennis St., near Winthrop St., Ward 20, for Benj. P. Bean, 6 dwells., 24' x 42', three-sty flat; C. W. Jefferson, builder.
 Washington St., near Boston & Providence R. R., Ward 23, for P. J. McNulty, dwell., 22' x 30', two-sty pitch; P. J. McNulty, builder.
 Heath St., cor. Heath Ave., Ward 22, for Mrs. A. H. Kneudien, dwell., 16' x 18' and 24' x 30', two-sty pitch; J. L. Lakin, builder.

Chicago.

OPERA-HOUSE.—Articles of incorporation have been filed at the office of the Secretary of State, for the Chicago Opera-House Company, capital \$600,000, incorporators, Charles Henrotin, Edward Koch, Wm. D. Kerfoot, P. Stanley and Samuel C. Walker.
BUILDING PERMITS.—Albert Crane, 5 cottages, Union St., near Thirty-first St.; cost, \$3,500.
 Peter Simon, three-sty store and dwell., 2316 Wentworth Ave.; cost, \$6,000; architect and builder, I. N. Kees.
 J. Weiner, three-sty store and dwell., 3001 Halsted St.; cost, \$8,000; architect, P. W. Ruehl; builder, P. Kaiser.
 E. J. Lehman, 2 three-sty flats, 2320 and 2322 State St.; cost, \$10,000; architects, Treat & Foltz.
 A. McVitte, two-sty shop, 2533 and 2535 State St.; cost, \$3,500.
 Geo. W. Smith, five-sty warehouse, 211 and 213 Michigan St.; cost, \$15,000; architect, E. Baumann; builder, E. Earnshaw.
 E. Heldmaier, 5 two-sty dwells., Wells St., cor. Hillis St.; cost, \$10,000; architect, H. M. Hanson; builders, Geo. Lehman & Son.
 Geo. W. Ackerman, two-sty store and dwells., Western Ave., cor. Polk St.; cost, \$8,000; architect, J. W. Ackerman.
 F. Weber, two-sty dwell., 172 West Fourteenth St.; cost, \$3,500.
 C. & A. Railroad Co., addition to store and house, between Harrison and Van Buren Sts.; cost, \$2,500.
 Chas. Och, two-sty dwell., 510 North Paulina St.; cost, \$3,000.
 Ernst Bros., four-sty brewery, 59 to 63 Larabee St.; cost, \$20,000; architect, F. W. Wolff; builder, Seoffier.
 R. Robertson, 8 two-sty stores and dwells., 979 to 993 North Clark St.; cost, \$20,000; architect, H. Boehme.
 John Jansen, 3 cottages, 103 to 107 Coblenz St.; cost, \$3,000.
 S. E. Gross, 25 cottages, Thomas St.; cost, \$30,000.
 S. Stemmer, two-sty dwells., 378 Huribut St.; cost, \$4,500; architect, Ira C. Zarbell.
 P. J. Bush, two-sty dwell., 738 Thirty-first St.; cost, \$3,500.
 H. Brolle, three-sty dwell., 1015 North Halsted St.; cost, \$5,500; architect, Adolph Pott.
 Baker Bros., three-sty barn, Ogden Pl.; cost, \$6,000.
 A. Forrest, two-sty dwell., 1133 Adams St.; cost, \$3,500.
 J. L. Campbell, 10 two-sty dwells., Lexington St.; cost, \$25,000; architects, Edbrooke & Burnham.
 J. Becker, three-sty flats, 634 Sedgwick St.; cost, \$5,000; architect, A. F. Boos.
 B. Hagenson, two-sty flats, 357 and 359 Lincoln St.; cost, \$9,000; architect and builder, B. Hagenson.
 E. K. Beach, two-sty store, 223 Wabash Ave.; cost, \$18,000; builder, Leo Kabell.
 H. Kaylor, two-sty store, 27 Fullerton Ave.; cost, \$4,000.
 P. King, two-sty store and dwell., 717 Erie St.; cost, \$2,500.
 M. Robinson, two-sty dwell., 3727 Langley St.; cost, \$4,000.
 E. G. Zeller, two-sty store and dwell., 3007 Wentworth St.; cost, \$2,500.
 John Peters, two-sty store and dwell., 533 Blue Island Ave.; cost, \$4,000.
 F. Klema, two-sty dwell., 705 Loomis St.; cost, \$3,000.
 Mrs. M. E. Sande, 6 two-sty dwells., 605 to 615 Congress St.; cost, \$15,000.
 S. Olsson, two-sty store, 720 Seymour St.; cost, \$2,000.

Cincinnati.

BUILDING PERMITS.—From January 1 to February 9 the following building permits have been issued:—
 John Van, 11 three-sty brick dwells., cor. Euclid and Boone Sts.; cost, \$35,000.
 F. Underhilde, four-sty brick building, Walnut St., between Canal and Twelfth Sts.; cost, \$6,000.
 Benj. Rollman, three-sty brick store and dwell., State Ave., near Eighth St.; cost, \$6,000.
 Fred Paffe, two-sty brick dwell., Pavilion St., near McLean Ave.; cost, \$3,000.
 Eugene Berminghaus, five-sty brick building, Western Ave., near Dayton St.; cost, \$9,000.
 E. M. Patterson, 3 three-sty brick buildings, Grand Ave., near Prince Ave.; cost, \$8,000.
 P. J. Jones, two-sty brick building, 24 Baum St.; cost, \$3,800.
 L. B. Harrison, five-sty brick store, Vine St., near Second St.; cost, \$10,000; J. W. McLaughlin, architect.
 Bernar Fellhaus, two-sty frame building, Queen Anne Ave., opposite Church St.; cost, \$2,500.
 Fifteen permits for repairs; cost, \$15,750.
 Total permits, 24.
 Total cost, \$69,050.

New York.

CHAPEL.—A chapel of brick stone and terra-cotta

Heart, on the n s of Fifty-first St., between Tenth and Eleventh Avenues, from designs of Messrs. N. Le Brun & Son.

EXCHANGES.—The most important projects this year seem to be in exchanges. The Stock Exchange will build a new edifice should they obtain a suitable site. The Petroleum Exchange also talk of having a building erected. Work on the Mercantile Exchange will commence about May 1, and the Mechanics' and Traders' Exchange are considering the project of the erection of a building to cost, with the land, \$250,000.

HOUSES.—It is said that the dwelling for Mr. John S. Kennedy, the banker, to be built at 995 Fifth Avenue, from designs of Mr. R. H. Robertson, will cost over \$150,000. The lot is 30' x 122'.

Messrs. D. & J. Jardine have drawn plans for a number of brick, brown-stone and terra-cotta four-sty houses, which it is proposed to have built on Sixty-eighth St., between Ninth and Tenth Aves. John D. Crimmins and Edward J. King are interested in the enterprise.

OFFICE BUILDINGS.—On the s e cor. of Wall and New Streets, the Mortimer Estate proposes to build a handsome eight-sty building.

At No. 51 Liberty Street the Brooklyn Life Insurance Company proposes to build a first-class office building, for which several architects are preparing competitive plans.

BUILDING PERMITS.—Washington Ave., w s 100' n One Hundred and Sixty-fourth St., 2 two-sty frame dwells., tin roof; cost, each, \$1,700; owner, Susan C. Cooper, 223 East Twenty-third St.; architects and carpenters, Cooper & Weed.

One Hundred and Thirty-fifth St., n s 150' w Third Ave., four-sty brick tenement, tin roof; cost, \$9,000; owner, A. Schappert, cor. One Hundred and Thirty-fifth St. and Lincoln Ave.; architect, F. S. Barus.

Macomb St., n s, adjoining N. Y. City & N. R. R., three-sty frame dwell. and store, tin roof; cost, \$3,000; owner, Elizabeth Volze, Kingsbridge; architect and builder, G. W. Varian.

Ave. A, n e cor. Eightieth St., five-sty brick tenement and store, tin roof; cost, \$18,000; owner, M. H. Schneider, 1455 Ave. A; architect, Julius Kastner.

Ave. A, e s, 25' 6" n Eightieth St., five-sty brick tenement and store, tin roof; cost, \$13,000; owner and architect, same as last.

Eightieth St., n s, 79' e Ave. A, five-sty brick tenement, tin roof; cost, \$12,000; owner and architect, same as last.

South Fifth Ave., No. 133, five-sty brick store, tin roof; cost, \$18,000; owner, Jas. M. Fitzgerald, 21 Bank St.; architect, Chas. E. Hadden.

One Hundred and Fifty-fifth St., n s, 225' e Cortland St., two-sty frame dwell., tin roof; cost, \$3,800; owner, Constantine Kobel, One Hundred and Forty-eighth St., w of Third Ave.; architect and carpenter, Ed. Sticher; mason, Jno. Frees.

Forsyth St., No. 105, five-sty brick tenement, tin roof; cost, \$11,000; owner, Solomon Jacobs, 195 East Broadway; architect, Wm. Graul.

Ninety-second St., s s, 100' e Ninth Ave., five-sty brick, with first-sty brown-stone flat, tin roof; cost, \$20,000; owner, architect and builder, John D. Crimmins, 1037 Third Ave.

East Ninety-second St., No. 209, five-sty brick tenement, tin roof; cost, \$11,500; owner, Chas. Rieger, 1615 Third Ave.; architect, Chas. Kinkel.

Pitt St., No. 10, five-sty brick tenement, tin roof; cost, \$15,500; owner, Anna M. Dotzauer, 134 Second St.; architect, F. W. Klem.

East Fortieth St., Nos. 332 and 334, 2 five-sty brick and brown-stone tenements, tin roofs; total cost, \$35,000; owners and masons, Joseph and Robert Gordon, Second Ave., s w cor. Thirty-ninth St.; architect, A. Wagner; carpenter, R. Ellis.

North Third Ave., No. 650, near One Hundred and Fifty-first St., four-sty store and tenement; cost, \$9,000; owner, W. Frederick Weber, 135 Division St.; architect, F. Jenth.

One Hundred and Forty-fourth St., s s, 165' e North Third Ave., three-sty frame tenement, tin roof; cost, \$4,500; owner, Magdalena Hoffmann, 607 East One Hundred and Forty-third St.; architect, A. Arcandier.

Ninety-second St., n s, 125' e Third Ave., four-sty brick building, tin roof; cost, \$20,000; owner, Jacob Ruppert; architects, A. Pfund & Son.

Pearl St., No. 518, four-sty brick tenement and store, metal roof; cost, \$10,000; owner, John V. Haik, on premises; architect, Bart. Walther.

West Fortieth St., Nos. 542 and 544, five-sty brick factory, tin roof; cost, \$7,000; owners, Ferguson Bros., on premises; architect, L. H. Broome.

ALTERATIONS.—Elizabeth St., Nos. 190 and 192, four-sty brick extension, gravel roof; cost, \$25,000; owners, D. Brinkenhoff & Co., on premises; architect, E. Sniffen.

Third Ave., Nos. 798, 800 and 802, internal alterations; cost, \$5,500; owner, Wm. Taylor, 799 Broadway; architects, Hugo Kafka & Co.

West Forty-second St., No. 3, new stone front and one and basement-sty brick extension; cost, \$5,500; lessee, James Slater, 247' w of Forty-fourth St.; architect, Jas. Stroud.

Broadway, No. 625, raise portion of building two stories, etc.; cost, \$20,000; owner, Emma Lawrence Jacob, 6 East Forty-second St.; architects, N. Le Brun & Son; builders, F. & W. E. Bloodgood and James Hardley.

Madison Ave., s e cor. Twenty-sixth St., raise extension one-sty, new staircase; cost, \$5,000; owner, Mrs. Leonard W. Jerome; lessees, University Club, H. H. Anderson, President, 24 Gramercy Park; architect, C. C. Haight.

Grand St., No. 456, add one-sty flat, tin roof, interior alterations; cost, \$3,000; owner, Bernhard Stern, 460 Grand St.; architect, J. M. Farnsworth.

Christie St., Nos. 191 and 193, repair damage by fire, rebuild walls, etc.; cost, \$10,000; owner, Henry Weil, Mansion House, Brooklyn; architects, Thom & Wilson.

Church St., Nos. 168, 170, 172 and 174, three buildings, raise one story, put in freight and passenger elevators, interior alterations; cost, \$50,000; owner, estate Wm. Watson, by F. A. Watson, exr., 19 Park

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

(Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.)

BUILDING PATENTS.

(Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.)

- 292,462. SAFETY-GATE FOR ELEVATORS.—Frank K. Bartlett, Springfield, Mass.
 292,466. SKYLIGHT.—George Hayes, New York, N. Y.
 292,468. CHIMNEY-TOP.—Nicolai Petersen, Chicago, Ill.
 292,471. FIRE-ESCAPE LADDER.—Andrew J. Bartlett, Elk Flat, Ore.
 292,518. FIRE-ESCAPE.—Henry E. Doren, Grand Rapids, Mich.
 292,559. CONCRETE AND CONCRETE PAVEMENT AND ROOF-PAVEMENT AND SUBSTRUCTURE FOR THE SAME.—Thaddeus Hyatt, New York, N. Y.
 292,567-568. SCREW-JACK.—Edward H. Middleton, Philadelphia, Pa.
 292,571. HINGE.—William Patterson, San Francisco, Cal.
 292,585. METALLIC ROOFING-SHINGLE.—Ephraim B. Hoop, New Windsor, Md.
 292,587. BIT AND DRILL-BRACE.—John D. Richardson, Brooklyn, N. Y.
 292,630. SHADING-PENCIL.—Geo. Baptiste Hecklinger, Streator, Ill.
 292,670. NAIL-HOLDER.—William A. McDonald, Minneapolis, Minn.
 292,684. ELEVATOR.—Geo. Alexander Saxer, New Brighton, N. Y.
 292,688. ELEVATOR STOP MECHANISM.—Frank Seconness, Detroit, Mich.
 292,701. CHIMNEY-PROTECTOR.—Ira A. Smith, East Berkshire, Vt.
 292,777. DOOR AND GATE LATCH.—Chas. Wormuth, Little Falls, N. Y.
 292,788. SKYLIGHT.—John Ehrhardt, St. Louis, Mo.
 292,767. FIRE-ESCAPE.—Robert Stevenson, Ferrysburg, Mich.
 292,843. FIRE-ESCAPE.—Jas. T. Guthrie, Leesburg, O.
 292,845. FIRE-ESCAPE.—Geo. M. Kim, Allegheny, Pa.
 292,855. FIRE-ESCAPE.—John D. Richberg and Dan Brobston, Chicago, Ill.
 292,874. BENCH-VISE.—John Thomson, Brooklyn, N. Y.
 292,887. TILE OR BLOCK FOR FINISHING INSIDE WALLS.—Jas. Austin, Detroit, Mich.
 292,901. CISTERN FOR WATER-CLOSETS.—John Demarest, New York, N. Y.
 292,918. WATER-CLOSET.—John Kelly, Chicago, Ill.
 292,937. OPEN-FIRE STOVE AND HEATER.—Alonzo R. Morgan, New York, N. Y.
 292,944. CESSPOOL-WELL.—William and John M. Rowbottom, Allegheny, Pa.
 292,961. FIRE-ESCAPE.—Thos. Brooke, Des Moines, Iowa.
 292,969. FIRE-ESCAPE.—Robert P. Clark, Philadelphia, Pa.
 292,970. ELEVATOR.—Riley L. Davis, Mooresville, N. C.
 292,910. BUILDING-WALL COMPOUND.—Levi Haas, Chester, Pa.
 292,922. RADIATOR FOR HOT-AIR FURNACES.—Cyrus S. Hood, Corning, N. Y.
 292,925. VENTILATED SHOW-WINDOW.—Samuel E. Hyndman, Cincinnati, O.
 292,938. ELEVATOR.—August Kleckhefer, Milwaukee, Wis.
 292,949. SCAFFOLDING-BRACKET.—Mark N. Knight, Skowhegan, Me.
 292,954. DRAUGHT-REGULATOR FOR PIPES, FLUES, AND VENTILATORS.—Lewis Young Lenhart, Red Wing, Minn.
 292,955. MIXED PAINT.—Howard Little, Decker, N. J.
 292,960. ELEVATOR.—Thomas McAdoo, New York, N. Y.
 292,964. SCREW-CLAMP.—Frank A. Moore, Louisville, Ky.
 292,972. FIRE-ESCAPE.—Thos. Brower Peacock, Texarkana, Kan.
 292,977. DOVE-TAILING-MACHINE.—John Schmidt, Burlington, Iowa.
 292,980. WINDOW-SASH.—William A. Sinsel, Waukegan, Wis.
 292,981. SASH-CORD FASTENER.—William A. Sinsel, Waukegan, Wis.
 292,984. KITCHEN-WRENCH.—Charles Wechsler, Minneapolis, Minn.
 292,987. FIRE-ESCAPE.—Daniel Bennett, Logan, Ohio.
 292,993. FIRE-ESCAPE LADDER.—Arnold M. Downie, Omaha, N. Y.
 292,995. FIRE-WRENCH.—James Jewell, Grandville, Mich.
 292,997. FIRE-ESCAPE.—Samuel J. Joyce, New York, N. Y.
 292,998. HOT-AIR OR GAS ENGINE.—Hiram S. Kinsley, Paris, France.
 293,001. FIRE-ESCAPE BRACKET.—Charles M. Goss, N. Havelburg, N. Y.
 293,002. MANUFACTURE OF ARTIFICIAL STONE.—C. Wittmann, New York, N. Y.

SUMMARY OF THE WEEK.

Baltimore.

STORE AND DWELLINGS.—W. Claude Frederic, architect, has prepared drawings for Lewis H. Robinson, builder, for a three-story store and dwell., 16' 7" x 60', and 14 three-story dwellings, 16' x 54', to be built on Fulton Ave., commencing cor. Lanvale St., of pressed-brick, stone and terra-cotta, and to cost about \$50,000.

The same architect has prepared drawings for W. S. Booker, Esq., for a Queen Anne house to be built on McCulloh St., near Prestman St., on lot 15' x 150', of brick and terra-cotta, and heated by steam; cost, \$7,000.

BUILDING PERMITS.—Since our last report twenty-one permits have been granted, the more important of which are the following:

J. B. Irvin, 7 two-story brick buildings, w s Etting St., s of Bloom St.; 13 two-story brick buildings, e s Etting St., n of Lorman St.; and 10 two-story brick buildings, w s Etting St., n of Laurens St.

Wilson & Hunting, 6 three-story brick buildings (square) e s Linden Ave., n of Robert St.
 L. Schoenlein, 2 two-story brick buildings, s s Jefferson St., between Washington and Castle Sts.

W. J. E. Diven, 3 three-story brick buildings, e s Stricker St., n of Winchester St.

George Deer, two-story brick building, w s State St., between Saratoga and Mulberry Sts.

Conrad Hill, two-story brick building, w s Stockton St., between Patterson Ave. and Prestman St.

Amelia C. Gilbert, 3 two-story brick buildings, w s Parrish Alley, rear of Gilmor St. and s of Tennant St.

Jos. M. Didust, three-story brick building, n s Biddle St., e of Valley St.

Boston.

BUILDING PERMITS.—*Brick.*—Dartmouth St., No. 121, Ward 11, for Albion Knowlton, family-hotel, 25' x 63', four-story flat; H. McLaughlin, builder.

Temple St., near Sherman St., Ward 4, for Osgood & Hart, workshop, 33' x 60', two-story pitch.

Ruggles St., No. 95, Ward 19, for Timothy Connolly, dwell., 31' x 36', three-story flat.

Wood.,—East Fifth St., near L St., Ward 14, for Wm. T. Eaton, 2 dwells., 21' 6" x 40', two-story flat; Wm. T. Eaton, builder.

Vale St., near Lowland St., Ward 15, for Choate, Burnham & Co., wagon-shed, 16' x 140', one-story flat; G. W. Rigby, builder.

West Fifth St., No. 98, Ward 13, for Frank Campbell, dwell., 25' x 30', three-story flat; Michael Driscoll, builder.

Carruth St., cor. Van Winkle St., Ward 24, for Frederick L. Pierce, dwell., 17' x 30' and 32' two-story pitch; Frederick L. Pierce, builder.

Commercial Point Wharf, near Union St., Ward 24, for Boston Gas Light Co., coal-elevator, 15' 10" x 15' 10", five-story hip.

Centre St., rear, near Grove St., Ward 23, for Henry H. Salmon, stable and storage, 15' x 20', one-story pitch; John String, builder.

Washington St., rear, near Keyes St., Ward 23, for Hannah Kennedy, mechanical, 14' x 22', one-story pitch; Michael Kennedy, builder.

East First St., near opp. L St., Ward 14, for Harrison Loring, manufg, 57' x 100', one-story flat; J. B. Sears, builder.

Gayer St., No. 70, Ward 15, for Mrs. Annie Riley, dwell., 13' x 13' and 20' x 28', two-story pitch; Peter Riley, builder.

Dennis St., No. 98, near Blue Hill Ave., Ward 20, for C. L. Crober, mechanical, 16' x 26', one-story flat; F. C. Creber, builder.

Washington St., No. 42, Ward 5, for H. C. Paige, dwell., 13' x 22' and 24' x 30', three-story flat; James Keenan, builder.

Ruggles St., near Washington St., Ward 19, for Simon Goldsmith, 2 dwells., 20' x 45', three-story flat; Simon Goldsmith, builder.

Unnamed St., near Clifton St., Ward 20, for E. L. Kaiser, dwell., 24' x 36', two-story flat; J. V. Smith, builder.

Conant St., near Bumstead Lane, Ward 22, for W. Hardcastle, dwell., 20' 6" x 47' 6", three-story hip; H. D. Ward, builder.

Brooklyn.

BUILDING PERMITS.—Kosciusko St., n s, 194' e Stuyvesant Ave., two-story dwell., gravel roof; cost, \$3,000; owner, Louis P. Brown, 1345 Fulton St.; architect, B. F. Robbins; builders, E. K. Robbins and John Remsen.

North Eighth St., n s, 175' e Third St., four-story frame tenement, tin roof; cost, \$8,000; owner, Michael O'Connor, 337 Fourth St.; architect, F. Weber; builders, U. Maurer and J. Fallon.

Park Ave., n w cor. Kent Ave., four-story brick store and tenement, tin roof; cost, \$10,000; owner, A. Phillips, Jr., 124 East One Hundred and Twenty-fifth St., New York; architect and carpenter, John G. Haulon; mason, C. Collins.

Bushwick Ave., w s, 25' s Adams St., 3 three-story brick tenements, tin roofs; cost, each, \$6,000; owner, Jacob Bossert, 101 Harrison Ave.; architect, J. Platte; builder, J. Auer.

Sackett St., n w cor. Gowanus Canal, 2 frame buildings, board roof; total cost, \$5,000; owners, W. H. and J. W. Vanderbilt, 304 Navy St.; architect and builder, Phil Nies.

Graham Ave., No. 351, e s, about 75' n North Second St., three-story brick store and tenement, tin roof; cost, \$6,000; owner, Henry Barnes, 626 Greene Ave.; architect and builder, G. H. Garrison.

Ellery St., Nos. 319, 321 and 323, n s, 125' e Broadway, 3 three-story frame stores and tenements, tin roofs; cost, each, \$4,000; owner, Louis Stutz, Broadway, cor. Ellery St.; architect, Th. Engelhardt; builders, J. Armendinger and Peter Kunzweiler.

Carroll St., n s, 209' w Columbia St., three-story brick tenement, tin roof; cost, \$5,000; owner, John F. Peppard, 126 Hoyt St.; architect, T. E. Lockwood; builders, J. J. Gallagher and J. J. Geraghty.

Marcy Ave., e s, 27' 6" s Ellery St., 6 three-story frame tenements, tin roofs; cost, each, \$3,700; owner,

architect and builder, Henry Loeffler, 189 1/2 Stockton St.

Eckford St., e s, 95' s Norman Ave., 5 three-story frame tenements, gravel roofs; total cost, \$15,000; owner, architect and carpenter, Samuel Self, 142 Manhattan Ave.; mason, J. Haffner.

Maujer St., Nos. 79, 81 and 83, n s, 120' w Leonard St., 3 three-story frame tenements, tin roofs; cost, each, \$4,500; owner, Robert Kluth, 400 Grand St.; architect, A. Herbert; builders, U. Maurer and L. Kreuder.

Oakland Ave., n w cor. India St., four-story frame store and tenement, tin roof; cost, \$5,800; owners, O'Keefe & Doyle, North Sixth St., cor. Fifth St.; architect, A. Herbert; builder, not selected.

Volcott St., No. 36, e s, 150' s Richard St., three-story frame tenement, tin roof; cost, \$4,500; owner, John Hickey; architect and builder, C. M. Detlefsen.

Bushwick Ave., s s cor. Adams St., three-story brick store and tenement, tin roof, wooden cornice; cost, \$10,000; owner, Leonard Eppig, Central Ave.; architect, Frank Holmberg.

Lafayette Ave., n s, 100' w Lewis Ave., 6 two-and-one-half-story brown-stone dwellings, tin roofs; cost, each, \$4,500; owner, architect and builder, P. F. O'Brien, 148 Lee Ave.

Central Ave., No. 92, w s, 25' s Jefferson St., three-story frame store and tenement, tin roof; cost, \$4,500; owner, Henry Eppig, Central Ave.; architect, Frank Holmberg.

Fourth St., s s cor. Lorimer St., 4 three-story stores and tenements; total cost, \$8,000; owners, Randall, Miller & Henderson; architects and builders, Randall & Miller.

Meserole St., n s, 125' w Lorimer St., three-story frame tenement, tin roof; cost, \$4,300; owner, Edward Kanets, Bushwick Ave., cor. North Second St.; architect, John Platte; builders, J. Sachs and D. Kreuder.

Deatur St., s s, 275' w Patchen Ave., two-story brick dwell., tin roof, wooden cornice; cost, \$3,000; owner, William Vather, 378 Deatur St.; architect, Isaac D. Reynolds; builder, J. J. Quinn.

St. Andrews Pl., e s, 275' s Herkimer St., 3 two-story brick dwellings, tin roofs; cost, \$2,500 each; owner, E. Nichol, 33 Troy Ave.; architect, W. Williamson; builder, A. Nichol.

Bogart St., e s, 100' n Flushing Ave., 3 two-story frame dwellings, tin roofs; total cost, \$5,000; owner, Edward Barnett, Flushing Ave.; architect, John B. Harned; builder, J. Monzani.

Bergen St., n s, 100' w Franklin Ave.; four-story brick ice-house, tin roof; cost, \$18,000; owner, Budwiser Brewing Co. (limited), cor. Franklin Ave. and Dean St.; architect, John Platte; builder, Jacob Rauth.

Grand Ave., s e cor. Willoughby Ave., 2 four-story brown-stone flats, felt and gravel roofs; cost, \$6,000 each; owner, Geo. W. Brown, 728 Fulton St.; builder, L. E. Brown.

Fulton St., No. 432, s s, 200' 1" e Gallatin Pl., five-story iron and brick store, tin roof; cost, \$14,000; owners, Wechsler & Abraham, 287 Fulton St.; architect, G. L. Morse.

Fifth Ave., No. 628, w s, 50' n Eleventh St., two-story brick store and dwell., tin roof; cost, \$4,000; owner, Abraham Simon, 624 Fifth Ave.; architect, E. Ryan; builder, J. R. Anderson.

Greene Ave., s s, 205' e Patchen Ave., 4 two-story Connecticut brown-stone dwellings, tin roofs; cost, each, \$5,000; owner and builder, Patrick Mullady; architects, Paritt Bros.

Broadway, s e cor. Locust St., four-story frame store and tenement, tin roof; cost, \$7,500; owner, Frank Nuss, 7 Siegel St.; architect, Th. Engelhardt; builders, Jno. Auer and M. Metzner.

Marcy Ave., n e cor. Floyd St., 2 three-story frame stores and tenements, tin roofs; total cost, \$10,000; owner, H. Ruckelshausen, 36 Tompkins Ave.; architect, Th. Engelhardt; builders, J. Fuchs and H. Eich & Bro.

Saratoga Ave., w s, 197' s Herkimer St., 2 two-story frame dwellings, tin roofs; cost, each, about \$3,000; owner, Wilhelm Altmad, 2130 Atlantic Ave.; architect, Chas. E. Heberd; builders, A. Sutterline and W. Nitz.

Fulton St., Nos. 422-430, s s, 100' e Gallatin Pl., and rear of No. 13 Gallatin Pl., e s, 119' 6" s Fulton St., five-story iron and brick dry-goods store, tin roof; cost, \$158,000; owners, Wechsler & Abraham, 287 Fulton St.; architect, G. L. Morse.

Chicago.

BUILDING PERMITS.—J. Webb, two-story dwell., 282 Leavitt St.; cost, \$3,000.

J. K. Bigelow, 2 three-story and cellar stores and flats, 633 and 635 Lake St.; cost, \$10,000; architect, H. R. Wilson; builders, Rodgers & Cook.

Phillip Lauer, two-story and basement dwell., 332 Centre Ave.; cost, \$4,000; architect and builder, Phillip Lauer.

A. Karsens, two-story basement and attic dwell., 57 Vedder St.; cost, \$4,000; architect, Bruhns.

Snyder & Co., two-story and basement factory, McGregor St.; cost, \$20,000; architects, Treat & Foltz; builder, J. Cox.

J. Julien, two-story and basement flats, 610 West Harrison St.; cost, \$3,000.

N. Gerten, 2 two-story and basement stores and dwellings, 342 and 344 North Ave.; cost, \$7,000.

E. S. Pike, two-story building, 163 State St.; cost, \$14,000; architect, F. L. Charnley.

G. W. Prince, two-story flats, 1034 Adams St.; cost, \$4,000.

H. W. Lemon, 2 three-story dwellings, 449 and 451 Elm St.; cost, \$9,000; architect, L. G. Halberg; builders, Wilkie & Hollman.

J. E. McNichols, 2 two-story flats, 286 and 288 Loomis St.; cost, \$6,000.

D. Milne, two-story flats, 1093 Jackson St.; cost, \$3,500.

E. S. Baldwin, 2 two-story and basement flats, 133 and 135 North LaSalle St.; cost, \$7,000; architect, W. Longhurst.

F. Laux, three-story and basement store and dwell., 303 Centre Ave.; cost, \$6,000; architect, E. Baumann; builders, Mueller & Schell.

U. P. Smith, three-story stores and flats, 3207 to 3213

Cottage Grove Ave.; cost, \$40,000; architects, Wheelock & Clay; builder, A. H. Lowden.
H. Hasenbain, two-sty and basement store and dwell., 876 West Twenty-first St.; cost, \$3,500.
J. May, three-sty and basement dwell., 501 Wabash Ave.; cost, \$5,000; architects, Frommann & Jensen.
I. Hoerber & Co., three-sty and basement store and dwell., 556 Twelfth St.; cost, \$6,500; architect, Reaul; builder, A. Tresselt.

Detroit.

BUILDING PERMITS.—The following are the most important permits granted since our last report:—
Mary Landgaskowski, brick store, 778 Riopelle St.; cost, \$4,000.
Aaron Keen, frame dwell., 808 Third St.; cost, \$2,500.
Geo. W. Snover, brick store, 836 Michigan Ave.; cost, \$4,000.
E. H. Green, brick store, 702 Michigan Ave.; cost, \$4,500.
John Boeberitz, brick dwells., 27-31 Macomb St.; cost, \$5,000.
W. G. Vinton, addition to church, cor. Clinton and Campan Aves.; cost, \$10,000.
P. D. Tahant, 2 brick stores, Michigan Ave.; cost, \$5,000.
Dry Dock Engine Works, brick shop, Atwater St.; cost, \$5,200.
A. Chapoton, brick tobacco factory, 53-59 East Larned St.; cost, \$34,000.
W. Y. Wilson, brick dwell., 505 Antoine St.; cost, \$2,500.
A. C. Varney, brick factory, Blaubine St.; cost, \$8,500.
A. C. Varney, brick dwell., 280 West Warren Ave.; cost, \$4,500.
J. W. Granger, frame house, 170 Leland St.; cost, \$2,500.
A. C. Varney, 4 brick houses, 12-28 Caroline St.; cost, \$5,200.
H. S. Peoples, brick brick stores, Michigan Ave.; cost, \$5,000.
Margaret Toynton, add. to factory, West Congress St.; cost, \$16,000.
H. Carew, add. to house, 175 Campan Ave.; cost, \$2,700.

New York.

HOUSES.—Mr. Ed. J. King will have built, from designs of Messrs. D. & J. Jardine, 5 four-sty dwellings, 20' x 55' each, with extensions, on the south side of Seventy-first St., 350' w of Ninth Ave.
Messrs. Chas. Huek & Co. and Commissioner Crimmins will probably start several houses in the early spring.
OFFICE-BUILDINGS.—It is reported that Mr. C. H. Bliss will erect a large office-building on the site purchased by him adjoining the "Field" Building.
Mr. Geo. B. Post has been appointed architect for the Mortimer Building, a e cor. of Wall and New Streets; and Mr. F. Carlos Merry, for the Brooklyn Life Insurance Co. Building, to be erected at No. 51 Liberty St.
The Real Estate Exchange and Auction Room have requested Mr. Stephen D. Hatch to draw plans for the alterations to their recently-acquired premises on Pine Street.
STORES.—Messrs. Robert and Ogden Goelet will have built, at the s e cor. of Leonard and Hanson Sts., 4 seven-sty, 26' front, brick and stone stores, from designs of Mr. Kd. H. Kendall.
At Nos. 25 and 27 West Thirteenth St., a first-class store, 50' x 103' 3/4, is to be built by Messrs. Jas. A. Hearn & Son.
The New York Steam Company will erect a four-sty fire-proof building, 100' x 100', of brick and iron; cost, about \$250,000.
BUILDING PERMITS.—*Fifth Ave., No. 995*, six-sty brick and stone dwell., slate and copper (fire-proof) roof; cost, \$150,000; owner, John S. Kennedy, 63 William St.; architect, R. H. Robertson; builder, not selected.
Third Ave., s e cor. One Hundred and Fourteenth St., 5 five-sty brown-stone front tenements and stores, tin roofs; cost, each, \$16,000; owner, Ellen Murray, 315 East One Hundred and Sixteenth St.; architect, A. Spence; builder, Joseph Murray.
West Forty-second St., Nos. 309, 311 and 313, 2 five-sty brick tenements, tin roofs; cost, each, \$15,000; owner, Theresa Sigrist, 305 West Forty-second St.; architect, Chas. Reutz, Jr.
Second Ave., Nos. 928 and 930, 2 five-sty brick flats, tin roofs; cost, each, \$19,000; owner, Ernest Von Au, 83 Fulton St., Brooklyn; architect, Jobst Hoffmann.
East Houston St., No. 257, five-sty brick tenement, tin roof; cost, \$12,000; owner, Moses Toch, 232 East Tenth St.; architect, A. B. Ogden.
East Forty-first St., Nos. 206 and 208, 2 five-sty brick tenements, tin roofs; cost, each, \$22,500; owner, Peter Albert, 443 Second Ave.; architects, Thoms & Wilson.
One Hundred and Forty-eighth St., n s, 300' w Courtland Ave., three-sty frame tenement and store, tin roof; cost, \$4,800; owner, Cyrilus Nitsch, 9 West Fourth St.; architect and carpenter, Ed. Stiehler; mason, John Frees.
West Thirty-fifth St., No. 258, five-sty brick tenement and store, tin roof; cost, \$14,000; owner, Lawrence Curnen, 260 West Thirty-ninth St.; architect, Jos. M. Dunn.
Fourth Ave., e s, 44' n One Hundred and Twenty-fourth St., four-sty brick tenement and store, tin roof; cost, \$4,000; owner, Nora Dolan, One Hundred and Twenty-fourth St. and Fourth Ave.; architect, Andrew Spence.
East Houston St., No. 372, five-sty brick workshop and store, tin roof; cost, \$7,500; owners, Ignatz Melrovitz and Samuel Altman, 372 and 374 East Houston St.; architect, F. W. Klamt; builder, John Lochmann.
One Hundred and Fifty-eighth St., n s, 150' e Courtland Ave., 2 three-sty frame dwells., tin roofs; cost, \$7,000 and \$3,800; owner, Charles Anstalt, 1514 Sixth Ave.; architect, Adolph Pfeiffer; builders, Charles Haffen and George Mand.
One Hundred and Fourth St., n s, 180' w Fourth Ave., five-sty brown-stone front tenement, tin roof;

cost, \$18,000; owner, Philip Hausseman, 522 West Forty-ninth St.; architect, M. Louis Unglich.
ALTERATIONS.—*Second Ave., No. 104*, front and basement altered and a four-sty brick extension, tin roof; cost, \$11,000; owner, Ferdinand Ehrhart, 28 St. Mark's Pl.; architects, Schwarzmann & Buchman.
Stone St., Nos. 16, 18, and 20, and Nos. 33 and 35 Bridge St., raise two-sty and a four-sty brick extension, gravel roof; cost, \$30,000; owner, John S. Davidson, 248 West Forty-fifth St.; architect, Emilen T. Littell.
Fifth Ave., No. 574, front altered, also interior alterations; cost, \$7,000; owner, Geo. Kemp, 720 Fifth Ave.; architects and builders, Chas. Graham & Sons.
Sixth Ave., e s, 25' s One Hundred and Twenty-fourth St., raise two stories; cost, \$4,500; owner, John R. Kelly, a e cor. Sixth Ave. and One Hundred and Twenty-fourth St.; architect, M. Louis Unglich.

St. Louis.

BUILDING PERMITS.—Forty-nine permits have been issued since our last report, fourteen of which are for unimportant frame houses. Of the rest those worth \$2,500 are as follows:—
Dan Bailey, two-sty brick dwell.; cost, \$4,000; P. F. Messer, architect; J. J. McMahon, builder.
Mullanphy Emigrant Relief Fund, 2 two-sty brick dwells.; cost, \$5,450; I. Taylor, architect; J. J. McMahon, builder.
Mullanphy Emigrant Relief Fund, 2 two-sty brick dwells.; cost, \$5,450; I. Taylor, architect; J. J. McMahon, builder.
S. Hain, two-sty brick dwell.; cost, \$3,500; Wm. Riewe, builder.
A. Mueller, 2 adjacent two-sty brick dwells.; cost, \$5,500; Beckmeier & Reithmann, builders.
D. Leitch, two-sty brick dwell.; cost, \$4,000; T. B. Annan, architect; B. F. Stottemeyer, builder.
D. Leitch, two-sty brick dwell.; cost, \$8,000; T. B. Annan, architect; B. F. Stottemeyer.
W. Winnefeld, two-sty brick dwell.; cost, \$2,700; Staude, builder.
F. Flotron, two-sty brick dwell.; cost, \$3,000; T. H. Florence, builder.
C. A. Spaulding, two-sty brick dwell.; cost, \$6,600; McElfrick, architect; R. P. McClure, builder.
A. Cooper, 4 adjacent two-sty brick dwells.; cost, \$13,000; H. W. Kirchner, architect; A. Cooper, builder.
Mrs. A. Gray, two-sty brick dwell.; cost, \$2,700; J. Volk, builder.
McDonald, 2 two-sty brick dwells.; cost, \$3,800; C. F. May, architect; H. Drees, builder.
F. Greene, 2 two-sty brick dwells.; cost, \$5,000; F. Greene, builder.

General Notes.

ALBERT LEA, MINN.—Messrs. Naev & Soth will, as soon as the frost is out of the ground, put up a brick block, 22' x 70', two stories high.
An agent of the Chicago, Milwaukee & St. Paul Railway company was in town a few days since, and thinks of erecting sixty tenement-houses here the coming spring.
R. M. Todd is to finish the building of the steam grist-mill, begun by M. Thompson.
Wm. Morin proposes to build six cottages on Adams Street next spring, each to cost about \$1,000.
BRainerd, MINN.—The question of building a high-school building, to cost \$40,000, has just been voted upon by the inhabitants, and unanimously carried. The work will commence at once.
CLEVELAND, O.—The Bricklayers' Union has served formal notice on contractors and builders that bricklayers' wages for the coming season will be \$3.50 per day, and nine hours will constitute a day on Saturday.
All the sewer-pipe manufacturing companies of the United States, twenty-four in number, have organized a pool, to date from February 1. The headquarters will be here.
COATSVILLE, PA.—Country house for Wm. Ridgeway Esq., first-sty brick, timber-roof above; plans by Hazlehurst & Huckle, architects, Philadelphia.
DES MOINES, IOWA.—A review of the building expenditures in Des Moines the past year shows total expenditures to be \$3,668,472, of which \$275,000 was expended by the State on the new capitol-building; \$163,337 by the city for paving, sewerage, etc.; and \$29,200 for school-buildings. The Register figures the wholesale trade of the city at \$30,603,630, and the value of its manufactures at \$18,183,850.
DOYLESTOWN, BRICK'S COUNTY, PA.—A new county jail will be built this year; cost, probably, upwards of \$100,000; plans by Addison Hutton, architect, Philadelphia.
EAST ORANGE, N. J.—Mr. Wm. Doane, of Worth Street, a resident of Arlington Ave., has begun to build a brick row of four stores, immediately opposite the depot. The improvements will cost about \$25,000.
EAU CLAIRE, WIS.—The Congregational Society has decided to build a new edifice on the site of their present place of worship, at a cost of \$30,000 to \$35,000. The building committee, besides the trustees, consists of O. J. Ingram, E. Swift, C. A. Buller, D. P. Simons, and F. Holman.
ELGIN, MINN.—Elgin is nearly recovered from its terrible calamity of last July. Nearly every business house has been rebuilt, and they now have a much finer school-building than the one destroyed. The church has not been rebuilt yet, but work has begun on the foundation, and if the weather is favorable it will be reconstructed this winter.
ELK RAPIDS, MICH.—C. N. Hurlbut, two-sty wood dwell.; cost, \$2,500; D. S. Hopkins, architect, Grand Rapids, Mich.
EXETER, N. H.—It is expected that a Masonic Temple building will soon be built here. The fraternity have already collected a considerable fund for that object.
FARMINGTON, WIS.—The Catholic congregation at St. Michael's will build a new church next season. The contract for the masonry work has been let for \$2,000.
FREDERICK, MD.—Alfred J. Ritter, Esq., is about to have built a three-sty brick and terra-cotta store-building (Queen Anne), 32' x 55'; cost, \$10,000; from designs by George A. Frederick, architect, Baltimore; Mr. Balzell, builder, Frederick.

GREENBRIER, WHITE SULPHUR SPRINGS, VA.—Geo. A. Frederick, architect, Baltimore, is preparing plans for a Catholic church, to be built here, of brick with stone finish, 36' x 81'; seating capacity, two hundred and thirty; cost, \$8,000.
GUAYMAS, MEXICO.—Burnham & Root, architects, of Chicago, planned the hotel at Guaymas, Mexico, 200' x 300', two stories and basement; cost, upwards of \$75,000.
HANOVER, N. H.—The time for raising the \$60,000 for a new library-building for Dartmouth College, upon which the bequest of \$30,000 by E. H. Rollins is contingent, has been extended to March 1.
HARTFORD, CONN.—The town of Hartford two years ago appropriated \$60,000 for a soldier's memorial monument, and a committee of citizens that was appointed at that time have at length, after considering many designs, adopted a plan submitted by architect George Keller, of this city. It is to be in the form of a memorial arch, with two round side towers, a frieze of sculptured historical scenes, a parapet, etc., with places for statues on the top and sides. It is to be erected at the south end of the Ford-street bridge, the main approach to Bushnell Park, and facing the State Capitol Building.
HELENA, MONTANA TERR.—We have had considerable of a building boom throughout the Territory the past season, the little city of Helena taking the lead, having expended about three-quarter million dollars (\$750,000) in substantial building.
Considerable work is projected and plans are being prepared for next season. Among the foremost are the Montana National Bank, W. W. Boyington, architect, Chicago; Masonic Temple, Birkeland Block, T. W. Welter, architect; and numerous other buildings whose plans are not yet prepared.
Scale of mechanics' wages: bricklayers, \$7 per day; carpenters, \$4 per day; plasterers, \$5 per day; painters, \$3.50 per day. Good mechanics of all kinds are in demand.
Brick, good hard-burned, \$9 per M.
Pine lumber, common, \$20 per M.; first clear, \$50.
HIGHTSTOWN, N. J.—C. J. Hazard, two-sty wood dwell.; cost, \$3,000; D. S. Hopkins, architect, Grand Rapids, Mich.
HOLBROOK, MASS.—A dwelling is being built for Mr. Geo. L. Spear, from plans of Messrs. Hartwell & Richardson, of Boston. It measures 36' x 53', is two stories high, with pitch roof; McNeal, builder.
HOLYOKE, MASS.—The plans have been prepared for the new quarters of the Home National Bank in Tiley's block, and work will begin on the premises this week.
JAMESTOWN, D. T.—The trustees of the Presbyterian college at Jamestown have organized. The executive committee, consisting of Rev. E. J. Thompson of Casselton, Rev. D. N. Fanning and O. E. Hewitt, were instructed to look after plans for building, etc.
The North Dakota Bank will erect a brick block on Fifth Avenue.
KANSAS CITY, MO.—Two ordinances have been introduced in the city council, and are now under consideration by the Committee on Public Improvements, looking to the enlargement and improvement of the present city buildings. One of these ordinances proposes to erect a separate structure, two stories high, and to be used chiefly by the Engineering Department. The other proposes to build a third story on the present building.
LACONIA, N. H.—Mr. E. A. P. Newcomb, of Boston, is the architect of a house for Mr. Jas. H. Tilton; cost, about \$10,000.
LAKOTA, D. T.—Nelson County is building a jail in this town.
Two stores are also being built here this winter.
LILLY'S STATION, PA.—It is proposed to build a Catholic convent at Lilly's Station, on the Pennsylvania Railroad, on the top of the Alleghany Mountains.
LONG BRANCH, N. J.—Remodelling house for Simon Sternberger, frame building, new exterior, finished with Roystone's decorated shingles; cost of alterations, \$4,000; J. M. Merrick, architect; Jas. Thompson, builder.
A large hotel is in course of erection on the cor. of Ocean Ave. and Broadway.
MALDEN, MASS.—The proposed new building for public purposes, to be erected on Pleasant Street, would require an outlay of about \$75,000. The following Committee of the Malden Improvement Association has the matter in charge: Messrs. James Pierce, John W. Allen, William A. Wildo, Joshua H. Millet and George W. Walker.
A dwelling, 25'6" x 51', two stories high, pitch roof, is building for Mr. S. M. Fairlie; L. B. Jordan, contractor; Messrs. Hartwell & Richardson, of Boston, architects.
MARTINSBURG, W. VA.—W. F. Weber, architect, Baltimore, is preparing plans for additions and alterations to the Lutheran church at this place, to cost \$8,000.
MILWAUKEE, WIS.—James Kneeland, owner of the Grand Avenue House, has decided to demolish the present structure and build a new hotel on its site. The plans for the new hotel have been completed and approved. It will be called the Kneeland.
The Merchants' Association has taken formal action in favor of holding the State fair here next season, and of building a new hotel on the East Side.
MT. WASHINGTON, BALTIMORE CO., MD.—Edward A. Robinson, Esq., is about to erect additions to his frame cottage, to cost \$3,500, from designs by Benj. F. Owens, architect, Baltimore; John Burns, builder, MURKIN, MICH. — E. W. Merrill, three-sty brick block; cost, at least \$15,000.
County offices for Muskegon County, one-sty, fire-proof; cost, \$9,000.
Two-sty ward school-house; cost, \$13,000.
Remodelling ward school-house; cost, \$5,000.
D. S. Hopkins, Grand Rapids, Mich., architect for the above.
NIAGARA FALLS, ONT.—R. Furniss, two-sty cottage; cost, \$3,600; D. S. Hopkins, architect, Grand Rapids, Mich.
NORWALK, CONN.—F. H. Peckwel, architect, has prepared drawings for a house for J. H. Buckley, on Maple St., to cost \$5,000.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

- 293,215. FIRE-ESCAPE. — N. Robert Baer, Calvin J. Coe and Ira R. Coe, Lowell, N. Y.
 293,216. STORE-WINDOW. — Lyman Clapp Bailey, Calais, Me.
 293,223. DEVICE FOR GUIDING TONGUE AND GROOVED SHEATHING-PLANKS. — Truman B. Brown, New York, N. Y.
 293,218. COMBINED LOCK AND LATCH. — Anderson D. Holland, Newport, Ark.
 293,230. APPARATUS FOR HEATING AND VENTILATING BUILDINGS. — James H. Mauny, Chicago, Ill.
 293,265. ATTACHMENT FOR WATER-CLOSETS. — Luther H. Burnett, Chicago, Ill.
 293,310. SASH-HOLDER. — George P. Clements, New Milford, Pa.
 293,322. FIRE-ESCAPE. — William N. Griswold, New York, N. Y.
 293,326. DOOR-CLOSING DEVICE. — W. Antrobus Holwell, Quebec, Can.
 293,339. ROLLER-TRACK MECHANISM FOR PENDENT SLIDING-DOORS. — Edward William Martin, Lansingburg, N. Y.
 293,352. FIRE-ESCAPE. — Denison C. Pierce, Chicago, Ill.
 293,385. WEATHER-STRIP. — David Warnock, Olathe, Kan.
 293,390. COMBINED AUTOMATIC FLOOR AND SAFETY LATCH FOR ELEVATORS. — Thos. H. Wood, Philadelphia, Pa.
 293,413. WEATHER-STRIP. — Gustav Burkhardt, Homer, Ill.
 293,416. SCUTTLE-HINGE. — Wallace H. Carter, Farmingdale, Me.
 293,424. EXTENSIBLE LATCH. — Broomie Copeland and Frank Wright, Salem, N. Y.
 293,429. SKYLIGHT. — Alexander Drummond, Edinburgh, Scotland.
 293,438. WATER-TRAP. — William J. English, Coates, N. Y.
 293,473. TILE-MACHINE. — Philip Henry Kells, Adrian, Mich.
 293,489. BRICK-KILN. — William H. Melcher, Philadelphia, Pa.
 293,492. MANUFACTURE OF ROOFING-FABRICS. — Henry M. Miner, Philadelphia, Pa.
 293,497. RULE AND TRY-SQUARE. — Wiley N. Nash, Starkville, Miss.
 293,512. DOOR-LATCH. — Charles W. Pierce, Oak Hill, N. Y.
 293,523. FIRE-PROOF BUILDING. — John J. Schillinger, New York, N. Y.
 293,524. BUILDING-BLOCK. — John J. Schillinger, New York, N. Y.
 293,525. MACHINE FOR MAKING BUILDING-BLOCKS. — John J. Schillinger, New York, N. Y.
 293,527. WINDOW-SASH. — Henry W. Schroder, Springfield, O.
 293,548. DOOR-LOCK. — Bruno Wesselmann, Hamburg, Germany.

SUMMARY OF THE WEEK.

Baltimore.

- BUILDING PERMITS.**—Since our last report thirty-five permits have been granted, the more important of which are the following:
 L. H. Robinson, 10 three-story brick buildings, s s Fulton Ave. n of Tennant St.; and 2 three-story brick buildings, w s Carrollton Ave. s of Mosher St.
 J. Reedy & Co., three-story brick building, in rear n e cor. Fremont St. and Patterson Ave.
 E. W. Haviland, 19 three-story brick buildings, s s Light St., commencing s e cor. Randall St.; 8 two-story brick buildings, s s Towson St., commencing s e cor. Marriott St.; 8 two-story brick buildings, s s Cooks St., commencing s e cor. Marriott St.
 T. E. Thompson, 10 three-story brick buildings (square), s s Townsend St., between Barclay St. and Falls Alley; 10 three-story brick buildings (square), n s Lanvale St., between Barclay St. and Falls Alley; 3 three-story brick buildings, w s Barclay St., between Townsend and Lanvale Sts.
 Wm. McLaughlin, 10 two-story brick buildings (square), w s Johnson St., commencing n w cor. Barclay St.
 Wm. G. Scarlett, 3 three-story brick buildings, s s McClellan St., n of Laurens St.; and 3 three-story brick buildings, n s Wilson St., s of Park Pl.
 W. H. Forrester, three-story brick building, w s McClellan St., s of Laurens St.
 Wm. H. McDonnell, three-story brick building, n e cor. Chase and Wolfe Sts., fronting on Chase St.
 The Labor Report remains unchanged.

Boston.

- BUILDING PERMITS.**—Wood, — Washington St., No. 215, Ward 19, for S. Goldsmith, store, 16' 6" x 50', one-story flat; S. Goldsmith, builder.
 Boys on St., near Lamartine St., Ward 23, for Elizabeth King, dwell. and store, 25' x 41' 6", three-story flat; Joseph Hammerle, builder.
 Gordon St., on line B. & P. R., Ward 23, for City of Boston, storage, 17' x 60', one-story flat; Jas. McMarrow, builder.

- Grew St., near Centre St., Ward 23, for Paul Lincoln, dwell., 14' 6" x 22' and 22' x 32', two-story pitch; Joseph Hammerle, builder.
 Eaton Court, Ward 21, for Rose F. Hegarty, dwell., 21' 3" x 46', three-story flat; Sweet, builder.
 Hyde Park Ave., near Walk Hill St., Ward 23, for Miss A. N. McDonald, dwell., 23' and 30' x 35', two-story mansard; Alexander Rogers, builder.

Brooklyn.

- BUILDING PERMITS.**—East River, 141' s Joralemon St., six-story brick warehouse, gravel roof; cost, \$40,000; owner, Franklin Woodruff, 171 Reussen St.; architect and builder, Thomas Stowe.
 Central Ave., s s, 25' s Jefferson St., 2 three-story frame dwellings, tin roof; cost, each, \$3,900; owners, John Schuler and Peter Genser, 122 Central Ave.; architects, Vollweiler & Co., builder, J. Schriber; carpenter, A. Amann.
 Locust St., s s, 100' e Broadway, front, four-story frame tenement, tin roof; cost, \$5,000; owner, John Betz, 147 Hopkins St.; architects, Vollweiler & Co.
 Central Ave., n w cor. Magnolia St., three-story frame store and tenement, tin roof; cost, \$5,000; owner, Louis Remehardt, 396 Central Ave.; architects, Vollweiler & Co.
 Stanhope St., No. 123, s s, about 150' n e Central Ave., two-story frame dwell., tin roof; cost, \$3,000; owner, S. W. Johnson, 117 Stanhope St.; architect, E. F. Gaylor; mason, not selected; carpenter, Jenkins & Gillies.
 Stagg St., Nos. 185 and 187, n s, about 200' e Graham Ave., 3 four-story brick tenements, tin roofs; cost, each, \$5,500; owner, Hermann Reiners, Jr., 181 Stagg St.; architect, E. F. Gaylor; builders, John Auer and Jenkins & Gillies.
 Steuben St., w s, 58' n DeKalb Ave., four-story brick tenement, felt, cement and gravel roof; cost, \$8,500; owner, Mary A. McCormick, 98 North Eighth St.; architect, Amzi Hill.
 Franklin St., w s, 56' s Eagle St.; three-story frame store and tenement, tin roof; cost, \$3,500; owner, Henry Clark, 43 South Third St.; architect, F. Tyrrell.
 Graham Ave., No. 431, w s, 25' s Front St., three-story frame store and tenement, tin roof; cost, \$4,200; owner, Andrew J. Cook, 172 Richmond St.; architects and carpenters, Samuels & Bedford; masons, Doyle & Brazill.
 Sackett St., No. 334, s s, about 180' e Court St., two-story brick stable and dwell., gravel roof, wooden cornice; cost, \$3,000; owner and architect, Mr. Bequell, 403 Clinton St.; builders, E. P. Crane and Perkins & Green.
 Bond St., w s, 100' s Fulton St., 2 four-story brick stores and tenements, gravel roofs; cost, each, \$10,000; owner, Aaron S. Robbins, 114 Sixth Ave.; architect and carpenter, Joseph Platte; masons, John Demott & Sons.
 Greene Ave., n s, 410' e Bedford Ave., 3 three-story brown-stone dwellings, tin roofs; cost, \$8,000 each; owner, Andrew Miller, 1527 Pacific St.; architect, Amzi Hill.
 Hamilton Ave., No. 207, e s, 70' n Luquer St., two-story brick store and dwell., gravel roof; cost, \$3,000; owner and builder, J. F. Nelson, 26 Manhattan Pl.
 Dupont St., No. 136, s s, 175' e Manhattan Ave., three-story frame tenement, tin roof; cost, \$3,200; owner, John Hoffer, on premises; architect, James Mulhane; builders, John Hoffer and Post & Walker.
 Park St., s s, 130' e Broadway, three-story frame tenement, tin roof; cost, \$4,000; owner, Catharine Straub, 11 Lewis Ave.; architect, Th. Engelhardt; builder, Geo. Straub.
 Bogart St., No. 25, w s, three-story frame tenement, tin roof; cost, \$4,000; owner, Jos. Weidner, 39 Forest St.; architect, Geo. Hillenbrand; builders, Hellmann & Wagner.
 Bogart St., Nos. 27 and 29, w s, 50' n Varet St., 2 three-story frame tenements, tin roofs; total cost, \$8,000; owners and builders, Hellmann & Wagner, 33 Bogart St.; architect, Geo. Hillenbrand.
 Withers St., s s, 30' w Lorimer St., 2 three-story frame tenements, tin roof; cost, \$3,600; owner, John N. Schumacher, cor. Withers and Lorimer Sts.; architect, N. Herbert; builders, M. Smith and C. Schneider.
 Manhattan Ave., No. 507, four-story brick store and tenement, tin roof; cost, about \$8,000; owner, Mrs. Mary Morgan, on premises; architect, James Mulhall; builders, John Hoffer and Stephen Randall.
 Park Ave., No. 769, n s, 150' w Throop Ave., three-story frame tenement; cost, \$4,200; owner, S. Schwarz, cor. Throop and Park Aves.; architect, Th. Engelhardt.
 Van Buren St., n s, 153' 3" e Reid Ave., two-story brown-stone dwell., tin roof; cost, about \$4,000; owner, G. Marlinor, Brooklyn; builder, A. Miller.
 Central Elevator Pier, on Furman St., about halfway between Wall and Fulton Ferries, one-story frame freight-shed, gravel and felt roof; cost, \$5,500; owner, E. B. Bartlett & Co., 99 Old Slip, New York; builder, W. H. Hazard's Son & Co.
 Van Cott Ave., n e cor. Leonard St., four-story brick store and tenement, tin roof; cost, \$10,000; owner, Frederick Hammann, 322 East Eleventh St.; architect, Julius Boskell.
 Cook St., n s, 140' w Bogert St., 3 three-story frame tenements, tin roofs; cost, \$4,000; owner and builder, Geo. Luetler, 244 Lynch St.; architect, J. Platte.
 President St., No. 103, s s, rear, three-story brick store and tenement, tin roof; cost, \$4,300; owner, Peter Duff, 254 President St.; builders, W. Smith and W. A. Frey.
 Herkimer St., n s, 80' e Brooklyn Ave., two-story brick dwell., tin roof; cost, \$3,500; owner, architect, and builder, Edward I. Kutan, 29 Herkimer St.
ALTERATIONS.—Fulton St., Nos. 317, 319 and 321, the alterations, etc.; cost, \$12,000; owner, Geo. A. Hard, 33 Prospect Pl.; architect, C. E. Eisenach; builder, F. D. Norris.
 Gallatin Pl., No. 13, new front below second story and interior alterations; cost, \$3,000; owner, Wechsler & Abraham, 287 Fulton St.; architect, G. L. Moore.
 Court St., No. 294, alter pitch of roof to centre, second, third and fourth floors rearranged; cost,

about \$3,500; owner, Henrietta Stewart, 222 Court St.; architect, F. E. Lockwood; builders, Chatterley and Thomas Harris.

Graham Ave., No. 356, raised four feet from story beneath, also three-story frame extension; cost, \$3,000; owner, Henry Beals, 66 Greene Ave.; architect and builder, G. H. Garrison.

Broadway, s w cor. First St., interior alterations, etc.; cost, \$6,000; owner, First National Bank, Brooklyn, on premises; architects, Thayer & Robinson; builders, Thomas Gibbons and Jenkins & Gillies.
 Broadway, No. 135, three-story brick extension, tin roof, new store front, iron-work; cost, \$3,000; owner, Mrs. Brown, 144 Hewes St.; builders, W. & T. Lamb, Jr., and Maribus & Gill.

Chicago.

- HOUSES.**—Wm. Strippelman, architect, has made plans for 6 houses, cor. Twenty-sixth St. and Portland Ave., Trenton brick and terra-cotta finish; cost, \$35,000; to be built in flats.
 CHURCH. — Wm. Strippelman is architect for the African Methodist Episcopal Church, 41' x 90'; cost, \$10,000.
FACTORY.—Wm. Strippelman, architect, has planned the factory cor. Ashland Ave. and Arbor Pl., four-story and basement, 50' x 120'; cost, \$16,000.
FLATS.—The three-story flats to be built for Louis Weeber, 203 Walnut St., were planned by Wm. Strippelman, architect; Anderson pressed-brick and terra-cotta finish; cost, \$12,000.
BUILDING PERMITS.—A. F. Hale, two-story dwell., 3503 Indiana Ave.; cost, \$7,000.
 F. Hagerman, three-story store and dwell., 1147 Milwaukee Ave.; cost, \$3,000.
 Wm. Kerr, two-story dwell., 265 Flourney St.; cost, \$2,500.
 John G. Fuller, three-story store and dwell., 172 Division St.; cost, \$7,000.
 O. A. Crary, five-story store, 17 and 19 Canal St.; cost, \$26,000; architect, J. M. Van Osdel; builders, Fox & Hinde.
 Hansom Cab Co., two-story barn, 203 to 207 South Clinton St.; cost, \$15,000; architects, Burling & Whitehouse; builders, McMillan & Bros.
 L. Larson, two-story flats, 309 West Ohio St.; cost, \$2,500.
 Geo. K. & McClain, four-story stores and flats, 115 and 117 Fourth Ave.; cost, \$15,000; architect, H. Kelsold; builder, F. Hanner.
 Turner & Bond, 6 one and one-half-story cottages, 520 to 530 Idaho St.; cost, \$12,000.
 M. Kabal, two-story store and dwell., 837 Allport St.; cost, \$3,500.
 A. McNally, two-story dwell., 898 North Clark St.; cost, \$3,000.
 S. C. McIlwain, two-story dwell., 290 North State St.; cost, \$3,500.
 Chicago & North-western Railroad Co., freight-house, State St. and the river; cost, \$9,000.
 John Ford, three-story store and flats, 637 Indiana St.; cost, \$3,500.
 Louis Weeber, three-story flats, 203 Walnut St.; cost, \$12,000; architect, W. Strippelman; builders, Wilkie & Holman.
 Thos. Mackin, three-story flats, 239 Illinois St.; cost, \$17,000.
 C. B. Kimball, two-story dwell., 173 Park Ave.; cost, \$3,000.
 J. Prochazka, three-story dwell., 244 Maxwell St.; cost, \$4,000.
 J. Green, two-story dwell., 138 Henry St.; cost, \$10,000; architect, P. W. Ruehl; builder, J. G. Lobstein.
 J. Jansen, 3 cottages, 752-762 Shober St.; cost, \$5,000.
 Unity Church Industrial School, two-story school-house, Elm St., cor. Ghanham St.; cost, \$6,000.
 W. H. Davis, 3 cottages, 122 to 130 Lexington St.; cost, \$3,000.

Cleveland.

- STORES.**—Brick block on St. Clair St., for H. B. Payne; cost, \$7,000; Walter Blythe, architect.
 Brick block on Woodland Ave., for the Evangelical Association; cost, \$30,000; J. M. Blackburn, architect.
 Brick block on Bond St., for L. E. Holden; cost, \$45,000; Coburn & Barnum, architects.
MILL.—Rolling-mill in the Eighteenth Ward, for the Union Rolling Mill Co.; cost, \$15,000; Jno. T. Waterson, contractor.

New York.

- HOUSES.**—On Eighty-fourth St., between Fifth and Madison Aves., two dwellings, 25' x 50', are to be built by Philip Braender.
STORES.—It is reported that the St. Nicholas Hotel is to be torn down and the site covered with stores, from designs of Mr. S. A. Warner.
THEATRE.—A new theatre is to be built on the Bowery, by John A. Sterens, late lessee of the "Wind-sor," the site of which is to be built on for a hotel.
BUILDING PERMITS.—One Hundred and Forty-fourth St., opposite Ryder Ave., one-story frame stable, gravel roof; cost, \$2,500; owner, Jacob R. Wilkins, One Hundred and Fifty-eighth St., cor. Third Ave.; architect, R. F. Hall.
 Bowery, n e cor. Grand St., five-story and basement brick first-class store, metal roof; cost, \$45,000; owner, C. L. Wolfe, by J. M. Jackson, 3 Mercer St., agent; architect, J. B. Snook.
 Fourth Ave., w s, 29' n Twenty-third St., four-story brick stores and theatre, tin roof; cost, \$50,000; owner, Lyceum Company, 19 East Twenty-eighth St.; architects, Hubert, Pirsson & Co.
 Eighty-fourth St., s s, 30' e Lexington Ave., 2 five-story brick tenements, tin roof; cost, total, \$35,000; owner, Thomas A. Martin, Astoria; architect, John McIlvra.
 Bayard St., s e cor. Mulberry St., five-story brick tenement, tin roof; cost, \$10,000; owner, Harris Baum, 1499 Third Ave.; architect, W. Graul.
 Bayard St., s s, 25' e Mulberry St., 3 five-story brick tenements, tin roofs; cost, each, \$5,000; owner, Harris Baum, 1499 Third Ave.; architect, W. Graul.
 Seventy-ninth St., s s, 210' e First Ave., 4 five-story brick and brown-stone tenements, tin roofs; cost, each, \$18,000; owners, John Gaylor and Matthew C.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

- 293,551. BUILDERS' ROD.—Stanley Ashworth, New York, N. Y.
293,551. SASH-CORD FASTENER.—Henry L. Blodgett, Chicago, Ill.
293,557. WATERING-APPARATUS FOR HOT-HOUSES.—Warren H. Howe, Marlborough, Mass.
293,596. BRICK-MACHINE.—Robert N. Ross, St. Louis, Mo.
293,598. DOOR-HANGER.—Joseph E. Schmid, Buffalo, N. Y.
293,612. LIGHTNING-DIFFUSER.—Leonidas G. Woolley, Indianapolis, Ind.
293,617. PROTECTING BUILDINGS FROM VERMIN, FIRES, ETC.—Frederick W. Bartlett, Buffalo, N. Y.
293,626. ELECTRIC BELL-PULL.—Augustus S. Bunker, Lawrence, Mass.
293,627. FIRE-ESCAPE.—Spencer D. Butler, Marshfield, Mass.
293,636. ARTISTIC TILE.—Gyula de Festetics, Perth Amboy, N. J.
293,643. FILE-HOLDER.—William H. Foster, Jeffersonville, Ind.
293,646. MEANS FOR SUSTAINING DOWEL-PINS ON HINGED PINS.—Amos F. Gerald, Fairfield, Mo.
293,647. MACHINIST'S TOOL.—Fred I. Getty and Frederick Dickinson, Geneva, O.
293,651. SPOKESHAVE.—Albert D. Goodell, Miller's Falls, Mass.
293,662. HINGE-TIP.—Harvey Miller, Cincinnati, Ohio.
293,673-674. IRON FENCE.—Timothy Rogers, Springfield, O.
293,680. FIRE-ESCAPE.—Johan Steinwonder, Allegheny, Pa.
293,689. FIRE-ESCAPE.—John Osborne, Arnprior, Ontario, Can.
293,696. GREENHOUSE.—Edmund Mortimer Wood, Nahant, Mass.
293,707. FIRE-ESCAPE.—Robert W. Bradley, Denver, Col.
293,716. BRICK.—William E. Carleton, Boston, Mass.
293,721. FIRE-PROOF TIMBER.—William H. Dolman, New York, N. Y.
293,730. WATER-CLOSET.—Charles Harrison, New York, N. Y.
293,738. WEATHER-STRIP.—James H. Hummel, New York, N. Y.
293,752. COVERING FOR STEAM-BOILERS, PIPES, AND OTHER HEATED SURFACES.—Edward Krahenbuhl and Paul Rice, Allegheny, Pa.
293,800. BRICK.—Geo. W. Simonds, Boston, Mass.
293,804. TILE-MACHINE.—John S. Smith, Jackson, Mich.
293,820. SASH-FASTENER.—Samuel M. Tinkham, Taunton, Mass.
293,845. FIRE-ESCAPE.—George M. Bird, Boston, Mass.
293,848. PIPE-WRENCH.—Daniel S. Brown, Burdette, N. Y.
293,851. ELECTRIC SAFETY-DEVICE FOR ELEVATORS.—Jacob William DeCastro, New York, N. Y.
293,854-861. BENCH-PLANE.—Arthur T. Goldsborough, Washington, D. C.
293,865. WATER-CLOSET.—Nicholas Barry, Jr., Muscatine, Iowa.
293,864. DOOR-CHECK.—James Cleland, Wales Centre, N. Y.
293,865. ADJUSTABLE WRENCH.—Alphonso B. Smith, San Francisco, Cal.
293,867. LOCKING-LATCH.—Henning Sundquist, Chicago, Ill.
293,868. SLIDING-DOOR.—Winfield S. Voorhis and George H. Houser, Chicago, Ill.
293,869. APPARATUS FOR RAISING WATER.—Thos. Arthur, Bangor, Pa.
293,871. WOOD-PLANING MACHINE.—Edwin Benjamin, South Evanson, Ill.
293,888. FIRE-ALARM AND FIRE-EXTINGUISHING SYSTEM.—Charles E. Buell, New Haven, Conn.
293,914. LEVELLING-INSTRUMENT.—Wm. T. Comstock, New York, N. Y.
293,918. DOOR-CHECK.—William B. Dager, Canton, Ohio.
293,921. CUTTING-PLIERS.—Thos. G. Hall, Brooklyn, N. Y.
293,933. HINGE.—Charles E. Hart, New Britain, Conn.
293,934. MANUFACTURE OF CEMENT.—Ludwig K. Wenzel, Frankfurt, Germany.
293,935. HYDRAULIC RAMS ARRANGED IN SERIES.—George Schuch, Philadelphia, Pa.
293,936. SELF-LOCKING HATCH-COVER.—Andrew J. Leonard, Chicago, N. Y.
293,937. FIRE-ESCAPE.—Frank A. Bone, Lebanon, Ohio.
293,938. BENCH-VISE.—Mortimer G. Lewis, Lowell, N. Y.
293,939. WATER-CLOSET.—Emil Baude, Cincinnati, O.
293,940. SPOKESHAVE.—Addison E. Chapman, New York, N. Y.
293,941. APPARATUS FOR INDICATING TEMPERATURE OF DISTANT LOCATIONS.—William R. Comings, New York, O.

SUMMARY OF THE WEEK.

Boston.

- BUILDING PERMITS.**—*Brick.*—*Weston St.*, No. 67, cor. Chapel St., Ward 19, for J. J. McNamara, tenement, 50' x 54' x 11', four-st'y flat; Jas. Fagan, builder.
Union St., Nos. 26 and 28, *Friend St.*, No. 17, Ward 7, for David W. Cushing, mercantile, 24' x 31' x 55' 6" and 62' 4" five-st'y flat; J. H. Stevenson, builder.
Wood.—*East Ninth St.*, rear, near N St., Ward 14, for Asa W. White, storage, 20' x 30', one-st'y pitch; Alden Crocker, builder.
West First St., No. 394, Ward 19, for Deming Jarvis heirs, storage, 28' x 30', one-st'y flat; C. E. Hall & Co., builders.
Summer St., No. 109, rear, Ward 2, Peter McIntyre, storage, 20' and 24' x 50', one-st'y pitch; E. D. Leighton, builder.
Blue Hill Ave., near Quincy St., Ward 21, for John Otto, dwell. and saloon, 13' x 31' and 36' x 42', two-st'y flat; Thos. Clune, builder.
Wambeck St., near Wabeno St., Ward 21, for Neil McNeil, 3 dwells, 20' x 40', two-st'y pitch; McNeil Bros., builders.
South St., rear, near Commercial St., Ward 24, for J. D. Culler, storage, 50' x 110', one-st'y pitch; Malcolm McLellan, builder.
Longwood Ave., No. 104, Ward 22, for John McCormick, wagon-shed, 19' x 62', one-st'y pitch; barrel-shed, 34' x 123', two-st'y pitch; J. McNamara, builder.
Bath Ave., near Savin Hill Ave., Ward 24, for Wm. Bryan, dwell., 21' x 33', two-st'y pitch.
Holmes Pl., near Mill St., Ward 21, for James Benham, dwell., 23' x 32', two-st'y pitch; Kennebec Framing Co., builders.
Sydney Pl., near Harvard St., Ward 24, for Martin E. Foss, 2 dwells, 20' and 22' x 28', two-st'y pitch; H. C. Allan.
Unnamed St., rear, near Clifton St., Ward 20, for E. L. Kaiser, bakery and stable, 20' x 78', two-st'y flat; J. V. Smith, builder.
Wambeck St., rear, near Warren St., Ward 21, for B. F. Lamb, stable, 23' x 30', one-st'y pitch.
Lamarine St., rear, near Boylston St., Ward 23, for Lorenz Ernst, wagon-shed and bakery, 20' x 60', one-st'y pitch; Jacob Ludwig, builder.
Unnamed Pl., off Hyde Park Ave., near Florence St., for John Purdy, 2 dwells, 20' x 29', two-st'y pitch; John Purdy, builder.
Nonantum St., Ward 25, for Mrs. R. White, dwell., 20' x 25', two-st'y pitch; H. F. Ross, builder.
Wheatland Ave., cor. Spruce St., Ward 24, for Starrett J. Burgess, dwell., 28' x 34', two-st'y pitch; Burt Bros., builders.
East Seventh St., No. 650, near L St., Ward 14, for H. S. W. Johnson, dwell., 14' x 20' and 21' x 40', three-st'y flat.

Brooklyn.

- BUILDING PERMITS.**—*Sullivan St.*, n e cor. Conover St., 8 four-st'y brick tenements, tin roofs; cost, each, \$10,000; owner, Wm. H. Algie, 881 Tenth Ave., New York; architect, E. D. Howes; builders, Algie & Son.
Elery St., s s, 100' e Throop Ave., three-st'y frame tenement, tin roof; cost, \$4,300; owner, Augustus Stolzer, De Kalb Ave., near Throop Ave.; architect, J. Platte; builders, G. Lehrian & Sons and J. Rueger.
Withers St., No. 45, n s, 150' w Lorimer St., four-st'y frame tenement, tin roof; cost, \$5,500; owner, William Rhein, 47 Withers St.; architects, H. Vollweiler & Co.; builder, J. Schoch.
Leonard St., s s, 72' s Meserole Ave., three-st'y brick tenement, gravel roof, wooden cornice; cost, \$8,000; owner, John Wierk, 158 Eagle St.; architects, H. Vollweiler & Co.
Flushing Ave., No. 911, n s, 146' 5' e Bushwick Ave., three-st'y frame store and tenement, tin roof; cost, \$5,000; owner, Wm. Thalen, 358 Bushwick Ave.; architect, Th. Engelhardt; builders, Jacob Schoch and J. Frisse.
Greene St., No. 293, n s, three-st'y frame tenement, tin roof; cost, \$4,800; owner, M. Eberhardt, 203 Greene St.; architects, H. Vollweiler & Co.
Murphy Ave., No. 1821, 74' w Magnolia St., three-st'y brick store and dwell., tin roof; cost, \$6,000; owner, Geo. Schwille, 31 Scholes St.; architect, Th. Engelhardt; builders, Geo. Lehrian & Sons and Jos. Frisse.
Scholes St., n s, 223' w Lorimer St., three-st'y frame store and tenement, tin roof; cost, \$4,300; owner, J. Porrey, Scholes St., near Lorimer St.; architect, J. Platte; builders, J. Ayer and F. Herte.
Troutman St., s s, 100' e Evergreen Ave., three-st'y frame tenement, tin roof; cost, \$4,200; owner, Mr. Schell, Troutman St., near Evergreen Ave.; architect, J. Platte; builders, J. Hellman and K. Scheu.
Scholes St., s s, 20' e Bushwick Ave., one-st'y frame ice-house, tin roof; cost, \$4,000; owner, C. Frese, Scholes St., near Bushwick Ave.; architect, J. Platte; builder, J. Rauth.
Broadway, n s, 50' w Adams St., 4 three-st'y frame stores and tenements, tin roofs; cost, \$4,800; owner and builder, George Loeffler; architect, J. Platte.
Willoughby Ave., w s, 50' s Steuben St., 3 three-st'y brown-stone tenements, gravel roofs, wooden cornices; cost, each, \$4,000; owner, Geo. W. Brown, 728 Fulton Ave.; builder, L. E. Brown.
Melrose St., s s, 350' w Central Ave., three-st'y frame store and dwell., tin roof; cost, \$4,000; owner and carpenter, Chas. Gossman.
Sixth Ave., s w cor. Twelfth St., three-st'y brick store and dwell., tin roof; cost, \$5,400; owner, S. P. Lincoln, 184 Hall St.; architect, C. L. Lincoln.
Croton St., Nos. 79 and 81, e s, 37' s Flushing Ave., three-st'y brick store, tin roof, wooden cornice; cost, \$7,500; owner, J. J. Hower, 653 Fulton St.; architect, Th. Engelhardt.
Meserole Ave., s s, 30' e Leonard St., three-st'y brick store and tenement, gravel roof; cost, \$11,000; owner, John P. Wierk, 158 Eagle St.; architect, H. Vollweiler.
Meserole Ave., s s, 56' 6" e Leonard St., three-st'y

- brick tenement, gravel roof, wooden cornice; cost, \$8,000; owner and architect, same as last.
South Ninth St., No. 174, rear, two-st'y brick stable, tin roof, brick cornice; cost, \$5,000; owner, Christian Friedmann, on premises; architect, C. Rontz, Jr.
Third Ave., s w cor. Baltic St., 7 four-st'y brick stores and tenements, gravel roofs; cost, each, \$10,000; owner, George Beach, 467 Hicks St.; architects, Parritt Bros., builder, T. J. Nash.
Locust St., n s, 100' w Beaver St., 3 three-st'y frame tenements, tin roofs; cost, each, \$4,500; owner, John Kramer, 297 Floyd St.; architect, F. Weber; builders, G. Straub and J. Rueger.
Park Ave., s s, 250' w Sumner Ave., three-st'y frame tenement, tin roof; cost, \$4,200; owner, Jacob Comes, 820 Park Ave.; architects, H. J. Schwartzmann & Co.; builders, J. Armendinger and J. Rueger.
India St., n w cor. Oakland St., four-st'y frame tenement, tin roof; cost, \$8,000; owners, O'Keefe & Doyle, cor. North Sixth and Fifth Sts.; architect, A. Herbert; builders, Joseph Gately and John Fallon.
York St., n e cor. Washington St., six-st'y brick factory, gravel roof; cost, \$24,000; owners, Ketcham & McDougal, cor. York and Washington Sts.; architect, Mercein Thomas; builders, F. J. Kelly and L. W. Seaman, Jr.
Elm St., No. 128, e s, 200' n Central Ave., three-st'y frame tenement, tin roof; cost, \$3,200; owner, Ann Shanahan, on premises; architect, E. F. Gaylor; builder, Robert McArthur.
Graham Ave., No. 90, e s, 50' s Seigel St., three-st'y frame tenement, tin roof; cost, \$5,300; owner, Mary A. Kuhn, 88 Graham Ave.; architect, Th. Engelhardt; builders, Martin Kuhn and Peter Kunzweiler.
Madison St., n s, 250' e Tompkins Ave., 5 two-and-a-half-st'y brown-stone dwells, tin roofs; cost, \$5,500 each; owner, Jas. A. Thompson, 390 Lexington Ave.
Mason St., s s, 100' w Hopkinson Ave., 4 two-st'y brick dwells, gravel roofs; cost, \$2,500 each; owner and builder, Jno. G. Porter, 405 Pearl St., New York; architect, Thos. S. Godwin.
Washington Ave., No. 460, three-st'y and attic brick dwell., slate roof; cost, \$35,000; owner, J. W. Hollenback, Wilkesbarre, Pa.; architect, Alfred H. Thorp; builders, Stevenson & Son and Morris & Solover.
Seventh Ave., n e cor. Fourteenth St., three-st'y brick store and tenement, tin roof, wooden cornice; cost, \$8,000; owner and builder, R. F. Clayton, 471 Fifth Ave.; architect, J. D. Hall.
South First St., w s, about 150' e Tenth St., 3 three-st'y brick tenements, tin roofs; cost, \$4,600 each; owner and mason, James Rodwell, 99 Division Ave.; architect, E. F. Gaylor.
Seventh Ave., e s, 20' n Fourteenth St., 4 three-st'y brick tenements, tin roofs; cost, \$6,000 each; owner and builder, R. F. Clayton, 471 Fifth Ave.; architect, J. D. Hall.
Prospect Pl., s s, 163' e Rogers Ave., two-st'y and basement brick dwell., tin roof, wooden cornice; cost, \$3,500; owner, Kilward Tuttle; builders, Philip Sullivan and Edward King.
Lafayette Ave., n w cor. Steuben St., 4 four-st'y brick double flats, felt, cement and gravel roofs; cost, \$20,000 each; owner, Paul C. Gering, 420 Gates Ave.; architect, Amzi Hill.
- Chicago.**
FREIGHT-HORSE.—The Chicago and Grand Trunk Railroad Co. is building a freight-house on Third Ave., cor. Twelfth St. It will be two stories high, 50' x 304', with office-building three stories, 30' x 50', on Twelfth St.
BUILDING PERMITS.—W. Olson, two-st'y store and dwell., 788 West North Ave.; cost, \$3,000.
Turner & Bond, 2 cottages, 512 to 514 Idaho St.; cost, \$4,000.
E. A. Cook, two-st'y flats, 22 to 24 Washtenau St.; cost, \$5,600; architect, A. Nelson.
A. Eackbe, two-st'y store and dwell, 523 Jefferson St.; cost, \$4,500.
C. Miller, three-st'y store and flats, 3527 State St.; cost, \$4,500.
C. Shay, two-st'y dwell., 53 Sholto St.; cost, \$3,600; architect, J. H. Moore.
Frank Norah, 4 cottages, 817 to 823 Wood St.; cost, \$5,000.
J. Carlson, three-st'y store and flats, 371 West Erie St.; cost, \$4,000; architect, J. Olson.
J. H. Lomax, three-st'y store and dwell., 60 North State St.; cost, \$8,000; architect, G. N. Boughtelting.
Wm. Gilman, two-st'y addition to warehouse, 637 to 639 Halsted St.; cost, \$4,000; architect, Wm. Gilman.
A. C. Harpor, three-st'y flats, 119 West Polk St.; cost, \$6,000.
S. M. Roach, two-st'y dwell., 263 Fremont St.; cost, \$3,000.
Conrad Seipp, two-st'y flats, 193 to 197 Van Buren St.; cost, \$5,000.
J. L. Stende, 2 two-st'y dwells., 2120 to 2122 La Salle St.; cost, \$6,000.
J. Pilat, three-st'y store and flats, 490 North Ashland St.; cost, \$13,000; architect, H. Clay.
Armour, Kent & Bunsley, twelve-st'y office-building, Van Buren St., cor. Pacific Ave.; cost, \$1,500,000.
P. G. Murphy, three-st'y dwell., Fourteenth St., cor. Wabash Ave.; cost, \$9,000.
D. S. Marsh, two-st'y dwell., Thirty-second St., cor. Lake Park Ave.; cost, \$8,000.
J. Heinrich, two-st'y dwell., 141 Forqueor St.; cost, \$2,000.
D. Simmons, three-st'y dwell., 298 Superior St.; cost, \$7,000; architect, John Otto.
Paul Diamond, three-st'y store and dwell., 537 Blue Island Ave.; cost, \$8,000; architect, P. W. Kuehl; builders, John McGrath & Co.
John Kleber, two-st'y dwell., 373 Market St.; cost, \$4,000.
H. W. Martin, three-story flat, 210 Third Ave.; cost, \$3,500.
H. W. Martin, 2 two-st'y dwells., 3640 to 3642 Vernon Ave.; cost, \$4,000.

H. W. Martin, 3 two-st'y dwell., 141 to 145 West Seventeenth St.; cost, \$1,500.
Adolph Lange, three-st'y store and flats, 618 Blue Island Ave.; cost, \$10,000; architect, W. Bessler; builder, W. Walk.

Cincinnati.

BUILDING PERMITS.—Since our last report the following permits have been issued for new buildings:—
Geo. Selser, two-st'y brick dwell., Browne St., near Jefferson St.; cost, \$3,000.
F. Heming & Co., three-st'y brick dwell., s w cor. Hughes and Schiller Sts.; cost, \$10,000.
Jos. Nohaus, three-st'y brick dwell., n e cor. Milton and Pond Sts.; cost, \$6,000.
Geo. H. Fiedrich, two-st'y brick dwell., Millitor St., near Eden Ave.; cost, \$3,500.
Geo. Conners, 2 two-st'y brick dwell., Crown St., near State Ave.; cost, \$7,000.
Lawrence Peppard, two-st'y brick dwell., Gilbert Ave., near Nassau St.; cost, \$3,500.
H. V., three-st'y brick factory, s w cor. Liberty and Barton Sts.; cost, \$20,000.
A. Lugerbaum, two-st'y brick dwell., Queen City Ave.; cost, \$3,500.
N. Mullier, three-st'y brick dwell., n w cor. Race and Findlay Sts.; cost, \$6,500.
C. Lumbert, 3 two-st'y brick dwell., Betts St., bet. Linn and Baymiller Sts.; cost, \$7,500.
W. H. Forwood, two-st'y brick dwell., Ashland St., Walnut Hills; Chas. Crapsy, architect; cost, \$8,000.
Jas. Averhill, two-st'y frame dwell., Wayne Ave., near Copland St.; cost, \$3,500.
C. Gruening, three-st'y brick dwell., Freeman Ave., near Court St.; cost, \$6,000.
John Hauck, four-st'y brick dwell., s e cor. Fourth and Mill Sts.; cost, \$25,000.
L. Podesta, four-st'y brick dwell., 108 Central Ave.; cost, \$7,000.
Louis Harner, two-st'y brick dwell., McMillan St.; cost, \$4,000.
John Kuppert, two-st'y brick dwell., s w cor. Warsaw and Hawthorne Aves.; cost, \$8,000.
Henry Feltman, four-st'y brick tobacco warehouse, 96 West Front St.; E. Anderson, architect; cost, \$22,000.
H. Boberg, three-st'y brick dwell., Dandridge St., near Frank St.; cost, \$5,000.
N. H. Streit, three-st'y brick dwell., s w cor. Liberty and Barton Sts.; cost, \$6,000.
H. Welber, three-st'y brick dwell., Findlay St., near Baymiller St.; cost, \$6,000.
Fifteen permits for repairs; total cost, \$193,300.
Total permits to date, 62.
Total cost to date, \$232,350.

Cleveland.

BUILDING ON Central Place, for A. Montpelier; cost, \$30,000; Dave Robinson, contractor; Walter Blythe, architect.
ALTERATIONS TO Chamberlain Block, on Bond St.; cost, \$3,500; Walter Blythe, architect.
BRICK FLAT ON Wilson Ave., for Caroline S. Meyer and Jacob J. Meyer; cost, \$15,500; Matthes & Wherry, carpenters; Co-operative Building Co., masons; F. H. Norton, architect.
DWELLING ON Wilson Ave., for Harry Dorner; cost, \$3,000; E. C. Bate, architect.
STABLE ON Wilson Ave., for O. B. Skinner, Esq.; cost, \$3,500, frame.

New York.

FLATS.—For Mr. M. Bergman a double brick and stone flat, 30' x 96', is to be built on the s w cor. of Boulevard and Ninety-ninth St., at a cost of about \$75,000, from designs of Messrs. D. & J. Jardine.
HOUSES.—For I. H. Schiff, Esq., a four-st'y house, of brick, stone and terra-cotta, 25' x 140', is to be built on Fifth Ave., between Seventy-fourth and Seventy-fifth Sts., at a cost of about \$125,000, from designs of Messrs. Schwarzmann & Buchmann.
Mr. Wm. Henderson will have 35 three-st'y private dwell., built on One Hundred and One Hundred and First Sts., between Lexington and Third Aves., at a cost of about \$500,000, from designs of Mr. John C. Burne.
Messrs. Chas. Buck & Co. will build 7 first-class four-st'y and basement brick and stone residences, on the n e cor. of Madison Ave. and Sixty-fifth St.; cost, \$225,000.
It is proposed to have built, on the s e of Madison Ave., between Seventy-sixth and Seventy-seventh Sts., 6 three-st'y and attic brick and brown-stone houses; Messrs. Lamb & Rich are preparing preliminary sketches.
OFFICE-BUILDING.—No. 47 Broadway is to be altered and improved, at an expense of about \$40,000; Col. Jas. H. Jones, owner; Messrs. D. & J. Jardine, architects.
BUILDING PERMITS.—Forty-sixth St., n s, 285' x Eighth Ave., 9 three-st'y and basement brown-stone dwell., tin roofs; cost, each, \$11,500; owner, John Livingston, 981 Lexington Ave.; architect, F. T. Camp.
West Thirty-third St., No. 435, four-st'y brown-stone tenement, tin roof; cost, \$12,000; owner and architect, John Coyle, on premises; builder, J. C. Lyons.
Worth St., No. 118, three-st'y brick shop, tin roof; cost, \$2,500; owner, Joshua Dyson, 15 Elm St.; architects and carpenters, Bardsley Bros.; mason, L. Doyle.
Ninth Ave., Nos. 237 and 239, s s, 50' x Twenty-fifth St., 2 five-st'y brick stores and tenements, tin roofs; total cost, \$25,000; owner, Marks Kinsdale, 229 East Thirty-third St.; architect, O. B. Ogden.
West End Ave., s s, 25' x 117' x One Hundred and Second St., two-st'y brick and Scotch sandstone dwell., tin roof; owner and architect, Ralph S. Townsend, 327 West Fifty-fifth St.; mason, J. A. Hopper.
Tenth Ave., s e cor. One Hundred and Fifth St., four-st'y brick apartment-house; cost, \$40,000; owner, David H. Knapp, One Hundred and Fifth St., between Ninth and Tenth Aves.; architect, R. S. Townsend.
One Hundred and Fifth St., s s, 40' x Tenth Ave., four-st'y brick apartment house, tin roof; cost, \$40,000; owner, etc., same as last.

One Hundred and Forty-fifth St., n s, 175' x Tenth Ave., 3 three-st'y brick dwell., slate and tin roofs; built by days' work; owner and builder, John Donnellon, foot of West Thirtieth St.; architects, Lamb & Rich.

East Sixty-eighth St., No. 608, two-st'y brick stable, tin roof; cost, \$3,000; owner, Chas. Clark, 612 East Seventeenth St.; architect, James Barrett.

Monroe St., s w cor. Corleais St., two-st'y brick car-house, gravel roof; owner, Dry Dock, East Broadway & Battery R. R. Co., Wm. White, President, White Plains, N. Y.; architect, M. C. Merritt.

One Hundred and Sixty-fifth St., s e cor. Tenth Ave., two-st'y brick dwell. and store, gravel roof; cost, \$4,000; owner, Geo. S. Lespinasse, 9 Pine St.; architect, Wm. Pior.

One Hundred and Second St., s e cor. Fourth Ave., five-st'y brick flat and store, tin roof; cost, \$17,000; owner, S. Haberman, East Ninety-seventh St.; architect, H. J. Dudley.

One Hundred and Second St., s s, 27' x Fourth Ave., five-st'y brown-stone front flat and store, tin roof; cost, \$17,500; owner and architect, same as last.

One Hundred and Second St., s s, 55' x Fourth Ave., 5 five-st'y brown-stone front flats and stores, tin roofs; cost, each, \$15,000; owner and architect, same as last.

Fourth Ave., s s, 74' x One Hundred and Second St., five-st'y brick flat, tin roof; cost, \$19,000; owner and architect, same as last.

Sixty-fifth St., s s, 90' x First Ave., 5 five-st'y brown stone front flats, tin roofs; cost, each, \$20,000; owner, John C. Umberfield, 216 East Sixty-first St.; architect, A. B. Ogden.

One Hundred and Forty-fifth St., s w cor. Third Ave., two-st'y frame dwell., tin roof; cost, \$3,500; lessee, Abraham Eiser, 121 West One Hundred and Twenty-fourth St.; architect, Bart. Walther.

One Hundred and Fifth St., n s, 500' x First Ave., one-st'y brick lumber-room, gravel roof; cost, \$4,000; lessee, Wm. Hall's Sons, 622 East Twentieth St.; architect, Bart. Walther.

Varick St., Nos. 20 and 22, 2 five-st'y brick warehouses, tin roofs; cost, each, \$30,000; lessee, Bernhard Mohand, 37 Fulton St., Brooklyn; architect, M. C. Merritt.

West Fifty-fifth St., Nos. 544, 546 and 548, 3 five-st'y brown-stone front tenements, tin roofs; cost, each, \$14,000; owner, Martha A. Lawson, 524 West Forty-ninth St.; architect and builder, Judson Lawson.

One Hundred and Fifty-sixth St., n e cor. Meserole Ave., 2 frame buildings, tin roofs; cost, \$4,000 and \$180; owner, Louis Denninger, 537 East One Hundred and Fifty-fourth St.; architect, A. Pfeiffer.

West Forty-seventh St., Nos. 432 and 434, 2 five-st'y brick and stone flats, tin roofs; cost, each, \$18,000; owner, Robert Auld, 425 West Forty-seventh St.; architect, Wm. J. Merritt.

Eight Ave., s e cor. One Hundred and Twenty-eighth St., 6 four-st'y brick tenements, tin roofs; cost, each, \$15,000; owner, Lorenz Welher, New Rochelle, N. Y.; architect, John Brandt.

East Seventy-seventh St., No. 445, four-st'y brick and brown-stone tenement, tin roof; cost, \$15,000; owner, John E. Staedler, 445 East Seventy-sixth St.; architect, John Brandt.

Division St., No. 141, cor. Canal and Ludlow Sts., five-st'y brick tenement and store, tin roof; cost, \$7,000; owner, Chas. Hasselmeier, 30 Canal St.; architect, Fred. Jenth.

ALTERATIONS.—Broadway, cor. Fifteenth and Seventh Aves., second story on Seventh Ave. fitted up with stalls for horses; cost, \$4,000; lessee, American Horse Exchange, Frederic Bronson, architects, D. & J. Jardine; builder, J. E. Moore.

West Fifty-seventh St., No. 407, five-st'y brick extension, tin roof; cost, \$6,000; agent, Thos. O'Callaghan, 407 West Fifty-seventh St.; architect, J. M. Dunn.

East One Hundred and Twentieth St., No. 207, four-st'y brick extension, tin roof and interior alterations; cost, \$3,000; owner, John F. Wallace, 327 West Fifty-seventh St.; architects, Cleverdon & Putzel; builder, M. Mulreim.

Broadway, No. 1546, four-st'y brick extension, tin roof; cost, \$3,000 to \$5,000; owner, Geo. W. Helme, Jersey City; builders, J. Masten and S. M. Dean.

Broadway, No. 857, four-st'y brick extension, tin roof; rebuild lower front and second story floor; cost, day's work; owners, Robert Goelot, 791 Fifth Ave., and O. Goelot, 608 Fifth Ave.; architect, Jos. M. Dunn; mason, M. Reid.

Washington Market, Fulton St., cor. Washington, West and Vesey Sts., iron sheds; cost, \$20,000; owner, City of New York; architect, Douglas Smyth.

Broadway, No. 115, extend sub-basement; cost, \$3,000; owner, Sarah Dorell; architect, Stephen D. Hatch; builders, K. L. Darrach & Co.

One Hundred and Seventh St., n s, 150' x Ninth Ave., raise one story and internal alterations; cost, \$10,000; owners, Bernheimer & Schmid, One Hundred and Eighth St., cor. Ninth Ave.; architects, Lederle & Co.; builders, J. & L. Weber and Henry Schiffer.

Cherry St., No. 65, attic raised to full story and internal alterations; cost, \$8,000; owner, Elizabeth D. De Lancey; architect, Jas. E. Ware.

Philadelphia.

EXHIBITION BUILDING.—The Franklin Institute Elect. Lect. Exhibition buildings have been contracted for with extend 232' on Thirty-second St. and 312' on Lancaster Ave., to be of frame and glass; cost, about \$30,000; J. K. Garber, contractor; plans by Wilson Bros. & Co., architects.

BUILDING PERMITS.—Coral St., s Somerset St., 2 two-st'y dwell., 13' x 40'; Dickson Bros.
Tenth St., n w cor. Richmond St., two-st'y store and dwell., 18' x 50'; Jno. W. Bright, contractor.

Seventh St., s Cumberland St., 5 two-st'y and 1 three-st'y dwell., 10' x 15'; Ames D. Kennedy, owner.
Fifth St., w Thirty-third St., 3 two-st'y brick dwell., 11' x 28'; R. G. Clark, contractor.

Eighth St., s Oak Lane, three-st'y dwell., 35' x 35'; Mary E. Willard, owner.
Tenth St., No. 1011, two-st'y store and dwell., 16' x 42'; Geo. W. Weiss, owner.
Sprague Ave., w Armat St. (Germantown), three-

st'y dwell., 16' x 32'; McLaughlin & McNamara, contractors.

Fernon St., Nos. 914 and 916, 3 three-st'y dwell., 16' x 28'; Joseph Stukeby, owner.

McKean St., w of Eighth St., 2 two-st'y dwell., 16' x 28'; Joseph Stukeby, owner.

McKean St., w Ninth St., 3 two-st'y dwell., 16' x 28'; Joseph Stukeby, owner.

Dorrence St., s Wharton St., 4 two-st'y dwell., 16' x 28'; Thos. Marshall, owner.

Eleventh St., No. 102, interior alterations and two-st'y back building, 16' x 28'; Guebert & Kiefer, contractors.

Lesse St., n Lehigh Ave., 3 two-st'y dwell., 13' x 40'; W. Bartholomew, contractor.

Decision St., w Jefferson St., 3 two-st'y dwell., 14' x 35'; Patrick Farley, owner.

Armstrong St., No. 621, three-st'y addition to factory, 35' x 38'; Hainback & Aueher, contractors.

Wharton St., No. 3209, two-st'y dwell., 16' x 42'; Nicholas Jenigen, owner.

Ecly St., bet. Godfrey and Spencer Aves., 2 three-st'y dwell., 15' x 30'; Michael McCullough, owner.

Church St., s Main St., one-st'y store, 16' x 20'; Martin Hetzel, contractor.

Washington St., bet. Penn and Fountain Sts., 3 three-st'y dwell., 17' x 44'; Jas. Mackey, owner.

Twenty-second St., cor. Washington Ave., two-st'y stable, 16' x 30'; shop, 16' x 42'; David Andrews, owner.

Quince St., n Lombard St., three-st'y dwell., 18' x 21'; Geo. A. Fry, contractor.

General Notes.

ALBERT LEA, MINN.—Wholesale store for Ransom Bros., 44' x 122', two stories and basement; cost, \$12,000; C. G. Maybury & Son, Winona, architects.

ATLANTA, GA.—The plan of Messrs. Edbrooke & Burnham, of Chicago, Ill., was adopted by the Commission for the new State Capitol of Georgia.

BEVERLY, N. J.—Country house for Mr. Jno. Hamer; Hazlehurst & Huckel, architects, Philadelphia, Pa.

BINGHAMTON, N. Y.—Messrs. Hartwell & Richardson, of Boston, Mass., are architects of a house for S. M. Johnson, now building. It is a two-and-one-half-st'y frame building, measuring about 37' x 50'.

BRYN MAWR, PA.—Boiler-house for the Bryn Mawr College, 25' x 50', to include laundry and engine room; also, a gymnasium-building, 40' x 80', of brick; Addison Hutten, of Philadelphia, architect.

On Haverford Road, a country house, 34' x 50', of stone; cost, about \$8,000; Hazlehurst & Huckel, architects, Philadelphia.

BYOTA, MINN.—Brick house for J. T. Price, two and one-half stories; cost, \$3,000; C. G. Maybury & Son, architects, Winona.

FAR ROCKAWAY, L. I.—The building of a new Roman Catholic church has been begun at Clarke Ave., cor. Catharine St.; the cost of the church is to be \$20,000.

A three-st'y dwell. is building, opposite the home of Judge Donohue, at Norton St. and the Rockaway turnpike; it is the property of P. Dollard.

GALESVILLE, WIS.—Brick store for Gilbertson & Myhre, 40' x 65', two st'y; cost, \$7,000; C. G. Maybury & Son, architects, Winona, Minn.

GRAFTON, DAK. TER.—Plans have been made for a city building, to cost \$10,000.

HOBOS, D. T.—House for F. E. Stevens, cost, \$2,000; C. G. Maybury & Son, architects, Winona, Minn.

KANSAS CITY, MO.—Morrison Munford, repairing and erecting printing establishment at the Diamond Block, erecting one-story, and extending and building five stories, \$15,000; Emily K. Brown, five frame residences on Lydia Ave., \$1,500 each. Julia J. Marks, residence and barn at 1309 Troost Ave., \$8,000. A. M. Sills, three brick residences, 1225 Sumnit St., and 1322 and 1324 Jefferson St., \$7,000.

Bids and Contracts.

CINCINNATI, O.—Bids for the sidewalk about the Government Buildings were as follows:—
Granite.—The Belknap & Dumesnil Stone Company, \$17,200, five months.
Pl. W. Schneider & Co., \$20,250, six months.
Alfred White, of Cincinnati, Ohio, and M. Gault & Son, of Baltimore, Md., \$21,000, eight months.
Gill & McMahon, \$27,700, eight months.

Indiana Limestone.—Belknap & Dumesnil Stone Company, \$11,750, five months; also, \$15,350, five months.
Gehan & McDonald, Limestone, \$11,316, five months; freestone, \$8,400, five months.
Ashman & Glasgow, \$11,700, four months.
P. Conkling & Co., \$11,000, September 1, 1884.
Baltz & Krebs, \$13,131, ninety working days.
David Hummel, \$13,125, two months, bush hammered; \$14,150, two months, picked work; \$11,825, two months, tool-dressed.
Hallowell Granite Company, \$13,747.
Granolithic.—L. S. Filbert, \$8,370, forty-five days.
H. L. Cranford, \$9,100, six months.
Artificial Stone.—Belknap & Dumesnil Stone Company, \$11,700, four months.
Baltz & Krebs, \$13,131, ninety working days, crushed granite and Portland cement.
George W. Cook, \$5,400.
The Charles Kuhl Artificial Stone Company, 750-500, five weeks (granulitic).

MINNEAPOLIS, MINN.—The Board of Education received the following bids for rebuilding the Iron School in South Minneapolis, recently destroyed by fire. The bids were as follows:—
L. C. Bisbee (with material from the old building), \$16,800.
O. Dickinson, \$21,147.
B. Brown, \$17,300.
R. N. Brittain, \$16,700.
Mr. Brittain having presented the lowest bid, the contract was awarded to him by the Committee.

QUINCY, ILL.—Bids for the stone-work of the Government Building were as follows:—
Indiana Limestone Co., \$37,007, October Limestone, 60 days.
W. D. Collingwood, \$42,316, Bedford, ten months.
Baltz & Krebs, \$50,572, Bedford, 225 days.
Larkworthy & Menke, \$51,350, Bedford, Quincy steps.
Same firm, \$63,550, Quincy, Bedford steps.
Scott Webber, \$74,461, Bedford, September, 1884.
M. A. McGowan, \$85,101, Quincy Limestone, twenty months.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

(Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.)

BUILDING PATENTS.

(Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.)

- 204,312. ELECTRIC ANNUNCIATOR.—Isaiah H. Far-
son, Portland, Me.
204,323. BRICK-KILN.—Willis N. Graves, St. Louis,
Mo.
204,333. WINDOW-BLIND.—Alexander H. Hill,
Oskaloosa, Iowa.
204,339. FIRE-ESCAPE.—William Jenson, Victoria,
British Columbia, Can.
204,355. WOOD-SCREW.—Samuel Montgomery, New
York, N. Y.
204,356. METALLIC SHINGLE.—Levi H. Montross
and John C. West, Simcoe, Ontario, Can.
204,357. WEATHER-STRIK.—Devolo C. Potter and
John Stone, Pittsburgh, Pa.
204,375. FIRE-ESCAPE.—Chester A. Roberts, Cale-
donia, N. Y.
204,376. WINDOW-SHADE FIXTURE.—Anton
Schmackers, Birmingham, Ala.
204,386. FIRE-EXTINGUISHER AND FIRE-ALARM.
Charles E. Baell, New Haven, Conn.
204,392. FOLDING FIRE-ESCAPE LADDER.—Ferdi-
nand W. Hofels, New York, N. Y.
204,394. WINDOW-BLIND AND AWNING.—Edward
L. Dannemora, N. Y.
204,395. DOOR-LATCH.—Ephraim S. Morton, Ply-
mouth, Mass.
204,397. DEODORIZING AND DISINFECTING APPA-
RATUS.—George Nobes, 27 Dudley Grove, Harrow
Road, County of Middlesex, Eng.
204,399. FASTENER FOR MEETING-RAILS OF SASH-
ES.—Frederick W. Otis, Ansonia, Conn.
204,402. TILE-MACHINE.—Wm. J. Woolley, Hill-
land, O.
204,403. TOWER.—John S. Adams, Elgin, Ill.
204,404. SKELETON IRON TOWER.—John S. Adams,
Elgin, Ill.
204,405. FIRE-ESCAPE.—Nicholas H. Borgfeldt,
New York, N. Y.
204,406. BRICK-MACHINE.—Anthony Cramer, De-
troit, Mich.
204,408. STEAM-DERRICK.—Chester C. Lyman,
Cleveland, O.
204,409. MACHINE FOR DRESSING STONES.—Fran-
cis Meisel, Boston, Mass.
204,410. WRENCH.—Judson A. Stanton, Sauk
Rapids, Minn.
204,430. ROCK-DRILL.—Chas. O. Barlow, Nevada
City, and Geo. T. Emery, San Francisco, Cal.
204,435. SASH-FASTENER.—Napoleon Bonaparte
Beedy, Galveston, Tex.
204,474. WINDOW AND DOOR BUTTON.—Elezzer
Kempshall, New Britain, Conn.
204,475. MANUFACTURE OF MOSAIC AND OTHER
TILES.—Jean Larmanjat, Paris, France.
204,476. HANGING-DOORS.—Alexander H. P. Leuf,
Brooklyn, N. Y.
204,484. KEAMER.—Chas. H. Malmedie, New Bed-
ford, Mass.
204,485. PROCESS OF MAKING COPIES OF TRAC-
INGS.—Philip H. Mandel, Astoria, N. Y.
204,489. REMOVABLE BOTTLE-TRAP.—George M.
McTearney, Brooklyn, N. Y.
204,497. WINDOW-BEAD FASTENER.—Horace F.
Neumeyer, Macungie, Pa.
204,500. WASTE-PIPE VENTILATOR.—Johannes
Petersen, New York, N. Y.
204,511. SEWER-GAS CHECK.—Charles Andrew
Schaeffer, Chicago, Ill.
204,512. ROTARY DRILLING-ENGINE.—Eliel L.
Crosby, Denver, Col.
204,513. FIRE-ESCAPE.—Jeremiah Stever,
Berkport, Conn.

SUMMARY OF THE WEEK.

Baltimore.

- FACTORY AND ENGINE-ROOM.—George A. Frederick,
architect, has prepared drawings for Messrs. Bailey,
Borington & Dorman, for a three-story brick build-
ing, with ornamental brick finish, 50' x 155', and a
one-story brick boiler and engine room, 30' x 50', to
be erected cor. Sharp and West Sts.; cost, \$20,000;
Frederick Becker, contractor.
BUILDING PERMITS.—Since our last report fourteen
permits have been granted, the more important of
which are following:
Borington, Bailey & Dorman, three-story brick
building, 50' x 155', n w cor. Sharp and West Sts.
John Kuper, 6 two-story brick buildings (square),
commencing s e cor. Pratt St. and Woodyear Alley.
H. H. Schaubert, 2 two-story brick buildings,
commencing s w cor. Hamburg St. and Burgunder
Alley.
Lawrence Turnball, 19 two-story brick buildings
commencing s w cor. Federal St. and Carter Alley.
J. H. Bowers, three-story brick building, in rear
of Bowers and Little Hughes Sts.
J. H. Bowers, two-story brick buildings, w s Paca
and Hamburg and Storrett Sts.
H. H. Mason, three-story brick building, n w
and North Sts.

Emily Fisher, three-story brick shop, 30' x 44', in
rear n s Fayette St., between Howard and Park Sts.
B. H. Unger, three-story brick building, n e cor.
Biddle and Wilcox Sts.
S. A. Plummer, three-story brick building, n s
Biddle St., e of Wilcox St.

Boston.

SUMMARY FOR 1883.—The following items are taken
from the Annual Report of the Inspector of Build-
ings:—

During the past year the number of brick, stone
and iron buildings for which permits were issued
were 236; for wooden buildings, 1021 permits; for
additions, alterations and repairs, 2,144.

The estimated cost of completed brick buildings
was \$3,864,577; of wooden and frame buildings,
\$1,670,800; and of additions, alterations and repairs,
\$2,386,226; while the amount of loss by fire on 431
buildings was \$563,673.

BUILDING PERMITS.—Brick.—Tremont St., No. 258,
Ward 12, for Patrick McAleed, hotel, 36' 7" and
42' 8" x 81' 6", six-story flat; Patrick McAleed, build-
er. Boylston St., cor. Exeter St., Ward 11, for H. B.
Williams, family-hotel, 90' x 112', six-story flat; Al-
bert Currier, builder.

School St., cor. Tremont St., Ward 10, for Harvey
D. Parker, hotel, 21' x 86', eight-story pthc.

Falmouth St., No. 22, for H. M. Whitney, 6
dwell., 18' x 37', three-story flat; Vinal & Dodge,
builders.

Brooklyn.

BUILDING PERMITS.—Meserole Ave., s s, 30' e Leon-
ard St., three-story brick store and tenement, gravel
roof; cost, each, \$11,000; owner, John P. Wierk, 168
Eagle St.; architect, H. Vollweiler.

Meserole Ave., s s, 56' 6" e Leonard St., three-story
brick tenement, gravel roof, wooden cornice; cost,
\$8,000; owner and architect, same as last.

South Ninth St., No. 174, rear, two-story brick
stable, tin roof; cost, \$5,000; owner, Christian Fried-
mann, on premises; architect, C. Rentz, Jr.

Third Ave., s w cor. Baltic St., 7 four-story brick
stores and tenements, gravel roofs; cost, each, \$10,-
000; owner, George Beach, 467 Hicks St.; architects,
Parrott Bros.; builder, T. J. Nash.

Locust St., n s, 100' w Beaver St., 3 three-story
frame tenements, tin roof; cost, each, \$4,500; owner,
John Kramers, 245 Floyd St.; architect, F. Weber;
builders, E. Straub and J. Rueger.

Park Ave., s s, 250' w Sumner Ave., three-story
frame tenement, tin roof; cost, \$4,200; owner, Jacob
Gunn & Co.; architects, H. J. Schwarz-
mann & Co.; builders, J. Armendinger and J. Rue-
ger.

India St., n w cor. Oakland St., four-story frame
tenement, tin roof; cost, \$8,000; owners, O'Keefe &
Doyle, cor. North Sixth and Fifth Sts.; architect, A.
Herbert; builders, Joseph Gately and John Fallon.

York St., n e cor. Washington St., six-story brick
factory, gravel roof; cost, \$21,000; owners, Ketcham
& McDougal, cor. York and Washington Sts.; archi-
tect, Mercin Thomas; builders, F. J. Kelly and L.
W. Seaman, Jr.

Elm St., No. 128, s s, 200' n Central Ave., three-story
frame tenement, tin roof; cost, \$3,200; owner, Ann
Shanahan, on premises; architect, E. F. Gaylor;
builder, Robert McArthur.

Graham Ave., No. 90, s s, 50' e Selgel St., three-story
frame tenement, tin roof; cost, \$5,300; owner, Mary
A. Kuhn, 68 Graham Ave.; architect, Th. Engel-
hardt; builders, Martin Kuhn and Peter Kuzweller.

Madison St., n s, 250' e Tompkins Ave., 5 two-and-
a-half-story brown-stone dwell., tin roofs; cost, \$5,500
each; owner, etc., Jas. A. Thompson, 300 Lexington
Ave.

Macon St., s s, 100' w Hopkins Ave., 4 two-story
brick dwell., gravel roofs; cost, \$2,500 each; owner,
Jno. G. Porter, 405 Pearl St., New York; architect,
Thos. S. Godwin.

Washington Ave., No. 460, three-story brick dwell.,
slate roof; cost, \$35,000; owner, J. W. Hollenback,
Wilkesbarre, Pa.; architect, Alfred H. Thorp; build-
ers, Stevenson & Son and Morris & Selover.

Seventh Ave., n e cor. Fourteenth St., three-story
brick store and tenement, tin roof; cost, \$8,000;
owner and builder, R. F. Clayton, 471 Fifth Ave.;
architect, J. D. Hall.

South First St., w s, about 150' e Tenth St., 3 three-
story brick tenements, tin roofs, iron cornice; cost,
\$4,000 each; owner and mason, Jas. Rodwell, 90
Division Ave.; architect, E. F. Gaylor.

Seventh Ave., s s, 20' n Fourteenth St., 4 three-story
brick tenements, tin roofs, wooden cornices; cost,
\$6,000 each; owner and builder, R. F. Clayton, 471
Fifth Ave.; architect, J. D. Hall.

Prospect Pl., s s, 163' e Rogers Ave., two-story brick
dwell., tin roof, wooden cornice; cost, \$3,500; owner,
Edward Tuito; builders, Philip Sullivan and Ed-
ward King.

Lafayette Ave., n e cor. Steuben St., 4 four-story
Trenton stone brick double flats, felt, cement and
gravel roofs; cost, \$20,000 each; owner, Paul C.
Grening, 420 Gates Ave.; architect, Amzi Hill.

Eagle St., s e cor. Provost St., two-story brick store-
house, gravel roof, brick cornice; cost, about \$7,000;
owner, John C. Provost, 136 Hewes St.; architect,
F. D. Norris; builder, John B. Woodward.

Eagle St., s s, 200' e Provost St., two-story factory,
with one-story extension as engine-room, gravel
roof, brick cornice; cost, about \$8,000; owner, John
C. Provost, 136 Hewes St.; architect, F. D. Norris;
builder, John B. Woodward.

Eagle St., s s, 330' e Provost St., rear, one-story
brick saw-mill; cost, about \$5,500; owner, John C.
Provost, 136 Hewes St.; architect, F. D. Norris;
builder, John B. Woodward.

Van Buren St., n s, 230' w Sumner Ave., 4 two-story
brick dwell., tin roof, wooden cornice; cost, \$4,000
each; owner and carpenter, F. Sloan, 286 Kosciuszko
St.; architect, H. M. Sloan; mason, J. Lynch.

Flushing Ave., n s, 207' e Bushwick Ave., three-
story frame store and tenement, tin roof; cost, \$13,000;
owner, W. K. Kitchin, 1 Flushing Ave.; architects,
H. Vollweiler & Co. and Jacob Schoch.

Flushing Ave., n s, 207' e Bushwick Ave., three-
story frame tenement, tin roof; cost, \$5,000; owner,
George Kesseling; architects, H. Vollweiler & Co.;
builder, Jacob Schoch.

Stockton St., n s, 178' e Sumner Ave., 3 buildings,
and 6 buildings on s s Stockton St., 225' e Sumner
Ave., in all 8 three-story frame tenements, tin roofs;
cost, \$4,500 each; owners, Konrad Hartmann and
Carl C. Grau, 244 Sumner Ave.; architects, H. Voll-
weiler & Co.

Broadway, Nos. 600 and 602, 2 two-story brick stores
and dwell., tin roofs, iron cornices; cost, \$3,500
each; owner, August Grill, Jefferson St., near Bush-
wick Ave.; architect, John Platte; builder, William
Maske.

Myrtle Ave., n w cor. Canton St., four-story brick
store and tenement, tin roof; cost, \$9,000; owner,
Mrs. Jas. Ryan, 118 Prospect St.; architect, I. D.
Reynolds; builders, Francis J. Kelly and Wm. Zang.

First St., e s, 100' n Broadway, three-story brick
store and factory, gravel roof, iron cornice; cost,
\$6,000; owner, W. W. Armfield, Penn. Av., N. Y.;
architect, F. W. Wurster; builders, W. & T. Lamb,
Jr.

Sixth Ave., w s, 20' s Twelfth St., 10 two-story and
basement brick dwell., tin roofs; cost, each, \$3,000;
owner, S. P. Lincoln, 164 Hall St.; architect and
builder, Chas. L. Lincoln.

Irving Pl., No. 83, e s, 110' n Fulton St., two-story
brick blacksmith-shop and dwell., tin roof; cost,
\$3,700; owner, Julius Lehrenkraus, 377 Fulton St.;
architect, Jakob Haugstatter; builders, Frank Cur-
ran and John King.

ALTERATIONS.—Washington Park, No. 180, late Cum-
berland St., two-story and basement brick extension
and interior alterations; cost, \$15,000; owner, Mrs.
J. M. B. Caruthers, on premises; architect, M. J.
Morrill; builders, T. Donlon and Long & Barnes.

Chicago.

OFFICE-BUILDING.—The Secretary of State has
licensed the Loomis Building Company, Chicago, to
erect a building on LaSalle St., near the new Board
of Trade, for office purposes; capital, \$400,000; incor-
porators, John M. Loomis, John McLaren and Geo.
W. Kemp.

BUILDING PERMITS.—Home Insurance Co., eight-
story office building, cor. Adams and LaSalle Sts.;
cost, \$300,000; architect, W. L. B. Jenney.
F. E. Avery, three-story dwell., 13 Lane Pl.; cost,
\$6,000; architect, C. F. Thomas.

Gurney Cab Co., two-story barn, 30 to 45 West
Adams St.; cost, \$20,000. A. M. F. Cotton, architect.
U. Trotter, two-story flats, 127 Twenty-fourth St.;
cost, \$0,000; F. V. Phillips, architect.

J. Cretshie, two-story flats, 382 Noble St.; cost,
\$3,700.
F. Selbrandt, two-story flats, 234 Twenty-fourth St.;
cost, \$5,000; architect, J. Frank.

C. Stren, two-story flats, 636 Nineteenth St.; cost,
\$3,500.
P. Larsen, three-story shop and engine-house, 127
North May St.; cost, \$6,000; architect, A. Carlson.

C. Martens, two-story store and flats, 368 West
Twenty-first St.; cost, \$4,000.
F. L. Breidenstein, two-story dwell., 791 Elk Grove
Ave.; cost, \$3,000.

J. M. Loomis, nine-story office-building, 210 to 224
LaSalle St.; cost, \$300,000.
W. D. Kerfoot & Co., nine-story office-building, 230
to 236 LaSalle St.; cost, \$80,000; S. V. Shipman,
architect.

C. Carr, two-story dwell., 191 Elm St.; cost, \$4,000.
J. A. McDermott, 2 three-story dwell., 3542 and
3544 State St.; cost, \$12,000; Holliard & Roach,
architects.

Parks, two-story dwell., 237 Warren Ave.; cost,
\$3,000; H. R. Wilson, architect.
Chicago Opera House Company, nine-story opera-
house, cor. Washington and Clark Sts.; cost, \$5,000,-
000.

Mandel Bros., three-story barn; cost, \$15,000; archi-
tects, Adler & Sullivan.
E. M. Fernandez, two-story dwell., 263 Bissell St.
O. Holenger, two-story dwell., 545 Chicago Ave.;
cost, \$3,000.

R. H. Atchison, three-story dwell., 236 Winchester
Ave.; cost, \$5,000.
Home Insurance Co., eight-story addition, cor.
Adams and LaSalle Sts.; cost, \$90,000; W. L. B. Jen-
ney, architect.

Hurston & Cassidy, two-story livery-barn, 978 Lake
St.; cost, \$7,500.
John Q. Adams, ten-story office-building, 110 and
118 Dearborn St.; cost, \$135,000.

C. Winkler, cottage, 96 Siegel St.; cost, \$3,500.
Compe & Haase, four-story factory, 179 and 181 Illi-
nois St.; cost, \$12,000.

A. Deach, two-story store, cor. Ogden Ave. and Van
Buren St.; cost, \$8,000; architect, L. J. Halborg.
J. J. Mariel, two-story flats, 123 Lytle St.; cost,
\$5,000; Kuehl, architect.

J. H. Doig, two-story dwell., 946 West Adams St.;
cost, \$3,000; H. Clyno, builder.
E. Hedrich, three-story dwell., 783 Larrabee St.;
cost, \$5,000.

J. Becht, two-story dwell., 252 Larrabee St.; cost,
\$4,500.
Schnoor, two-story dwell., 434 Dayton St.; cost,
\$4,500.

Wm. H. Thompson, 10 cottages, Albany Ave.;
cost, \$10,000; J. F. Gubbins, builder.
A. Jacobson, 3 cottages, 804-811 Seymour St.; cost,
\$3,000.

G. M. Aykroyd, three-story dwell., 235 Winchester
Ave.; cost, \$3,800; C. P. McKay, architect.
J. R. Winterbotham, four-story warehouse, 389 and
391 Fifth Ave.; cost, \$14,000; P. W. Kuehl, architect.

A. Brady, two-story store and dwell., 439 Taylor
St.; cost, \$3,500.
N. Helbach, two-story store and dwell., 971 West
Twenty-first St.; cost, \$3,000.

A. Bous, two-story store and dwell., 663 West
Eighteenth St.; cost, \$4,500.
J. C. Constock, centre wall to building, 291-295
Wabash Ave.; cost, \$15,000.

Horzog Bros., wagon-factory, 61 Wendell St.; cost,
\$2,000.
J. L. Campbell, 7 two-story dwell., 332 to 364
Campbell Ave.; cost, \$18,000.

M. J. Dewald, three-story store and dwell., 733 and
335 North Ave.; cost, \$7,000; A. F. Boos, architect;
N. Garton, builder.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

- 204,524. CAPPED WOOD-SCREW.—Edward Stelmke, Milwaukee, Wis.
 204,535. SPEAKING-TUBE ANNUNCIATOR.—Joseph Walter, New York, N. Y.
 204,569. LOCK.—Rudolf E. Woodrich, New York, and Chas. Langbein, Brooklyn, N. Y.
 204,569. ADJUSTABLE BLOWER FOR FIREPLACES AND STOVES.—Frank S. Bissell, Pittsburgh, Pa.
 204,573. FASTENING DEVICE FOR DOORS.—John E. Hazell, Tipton, Ind.
 204,626. BANK-VAULT.—John T. Hough, Chicago, Ill., and John A. Harper, Pittsburgh, Pa.
 204,629. FIRE-ESCAPE.—George R. Jenkins, Weston, Ky.
 204,635. EXTENSIBLE FIRE-ESCAPE.—Paul Kingston, Hastings, Minn.
 204,642. WRENCH.—Orlando A. Lee, Mansfield, O.
 204,643. KNOB OR HANDLE.—Charles S. Lewis, Waterbury, Conn.
 204,647. ILLUMINATING TILE.—Jacob Mark, New York, N. Y.
 204,693. SCREW-DRIVER.—William L. Parmelee, Ansonia, Conn.
 204,695. ROOFING COMPOSITION.—John F. Perry, Chicago, Ill.
 204,674. WATER AND STEAM COCK OR FAUCET.—Jos. Richter, Cincinnati, O.
 204,676. PROCESS OF PRESERVING WOOD.—William W. Robison, Ripon, Wis.
 204,702. LOCK.—Warren H. Taylor, Stamford, Conn.
 204,724. ROUTER-PLANE.—Henry P. Cope, Detroit, Mich.
 204,736. VISE.—Henry A. Hyle, Redwood, N. Y.
 204,746. LOCK-HINGE.—Thomas P. Straup and Louis Morgenstern, Easton, Pa.
 204,762. RATCHET BIT-BRACE.—William R. Clarkson, Buffalo, N. Y.
 204,767. AWNING.—Hugh B. Coyle, Philadelphia, Pa.
 204,771. HEATING AND VENTILATING DRUM FOR STOVES.—John Franklin Davis, Altoona, Pa.
 204,773. VENTILATING-DAMPER.—John P. Dorr, Neenah, Wis.
 204,774. SASH-FASTENER.—Frederick Eberlein, Chicago, Ill.
 204,776. WEATHER-STRIP.—Jeremiah R. Fogg, Salisbury, Mass.
 204,777. WOOD-WORKER'S DOG.—John Forbes, San Francisco, Cal.
 204,785. DOOR-SPRING.—William W. Jackson, Chicago, Ill.
 204,787. FASTENER FOR THE MEETING-RAILS OF SASHES.—Ebenzer Kempshall, New Britain, Conn.
 204,809. DOUBLE-HINGE.—Charles C. Richmond, Boston, Mass.
 204,820. VENTILATION.—Marshall B. Stafford, New York, N. Y.
 204,822. KNOB-ATTACHMENT.—Oscar Stoddard, Detroit, Mich.
 204,825. BENCH-PLANE.—Justus A. Traut, New Britain, Conn.
 204,828. SCREW-DRIVER.—Alfred D. Wallen, Mendham, N. J.
 204,842. ELECTRIC DOOR-PULL.—Charles Belle, Brooklyn, N. Y.
 204,848. FIRE-ESCAPE.—Robt. Alfred Bush, Brockville, Ontario, Can.
 204,853. SIDING AND CEILING FOR BUILDINGS.—George W. Crawford, Davenport Centre, N. Y.
 204,859. FIRE-ESCAPE.—Elam Dye, San Francisco, Cal.
 204,864. STONE-DRESSING MACHINE.—Essington N. Gilliland and Samuel P. McKelvey, St. Louis, Mo.
 204,870. FIRE-ESCAPE.—Ezra Randall Johnson, Buchanan, Mich.
 204,881. KNOB-SPINDLE ATTACHMENT.—Horace K. Jones, Hartford, Conn.
 204,887. FIRE-ESCAPE.—Theodore P. Lorton, Pawnee, Kans.
 204,894. SHUTTER BOWER AND FASTENER.—Wm. P. Marshall, Cambridge, Mass.
 204,901. LOCK.—David Morris, Log Cabin, O.
 204,905. PNEUMATIC DOOR-CHECK.—Gustavus S. Perkins, Hartford, Conn.

SUMMARY OF THE WEEK.

Baltimore.

Proposed.—W. Claude Frederic, architect, has prepared drawings for L. H. Robinson, builder, for a three-story brick and terra-cotta building, each 12 x 30, to be erected on Lanvale St., between Fulton and Mount Sts., to cost about \$10,000; and 2 two-story frame dwellings, on lot 307 x 90, to be erected on a Carrollton Ave., n of Fayette St.
 He has also prepared drawings for Jacob Saun, builder, for 4 three-story and basement buildings, on lot 2 x 12, to be erected on McMeichen St., near E. 3d St., and a three-story and basement building, on lot 10 x 70, commencing s w cor. John & McMeichen Sts., estimated cost, \$32,000.
Permits.—L. Carson, architect, has prepared drawings for J. Straus, Esq., for a three-story and mansard

brick and terra-cotta dwell., 23' x 90', to be erected cor. Eutaw Pl. and Mosher St., and to cost \$20,000; Henry Smith, builder.

George Archer, architect, has prepared drawings for I. E. Thompson, builder, for 28 dwellings, to be erected, 8 on Barclay St., 15' and 16' x 40'; 10 on Lanvale St., 17' and 18' x 40'; and 10 on Townsend St., 17' and 18' x 40', of brick, with stone and terra-cotta finish; cost, about \$70,000.

BUILDING PERMITS.—Since our last report thirty-two permits have been granted, the more important of which are the following:—

J. M. Wiley, three-story brick building, s s Edmondson Ave., w of Schroeder St.
 Henry Blake, three-story brick building (square), e s Park Ave., n of McMeichen St.
 John Trauer, two-story brick building, s s Mosher St., w of Linden Ave.

Mrs. Margaret Hayes, three-story brick building, rear, w s Charles St., between Fayette and Lexington Sts.

Mrs. L. Wise, three-story brick building, e s Charles St., between West and Ostend Sts.

Mrs. A. F. Duin, 2 three-story brick buildings, s s Monument St., e of Park St.

Geo. W. Robinson, Jr., 4 two-story brick buildings (square), e s Durham St., between Jackson Square Ave. and Fayette St.

Cath. Heldman, 3 three-story brick buildings, s s Lanvale St., between Pennsylvania Ave. and Wilmer Alley; and two-story brick stable, s s Wilmer Alley, rear No. 241, w s Pennsylvania Ave., n of Lanvale St.

Dr. William Rickers, three-story brick building, s e cor. Pennsylvania Ave. and Robert St., and two-story brick stable in rear.

L. H. Robinson, 3 three-story brick buildings (square), s s Lanvale St., between Fulton St. and Bruce Alley; and two-story brick stable in rear, w s Gilmor St., between Edmondson and Harlem Aves.

Jacob F. Olbrecht, two-story brick building in rear s w cor. Charles and West Sts.

Dr. John Thom, three or four-story brick warehouse, e s Calvert St., between Saratoga and Pleasant Sts.

Geo. C. Herberman, 5 two-story brick buildings, n s Lancaster St., commencing n e cor. Cannon St.

P. Ollman, 3 three-story brick buildings, w s Front St., commencing s w cor. Fayette St.

Jos. Aulbach, three-story brick building, w s Hull St., s of Marriott St.

Conrad Kipple, two-story brick building, w s Poca St., between Sterrett and Hamburg Sts.

Boston.

BUILDING PERMITS.—*Brick.*—Newbury St., Nos. 271-275, Ward 11, for Samuel T. Ames, 3 dwell., 25' x 36', three-story mansard; Denny & McClure, builders.

Willard Pl., Nos. 23-29, Ward 19, for C. W. Wellington, 4 dwell., 18' x 34', three-story flat; C. W. Wellington, builder.

Lenox St., Nos. 31-37, Ward 19, for C. W. Wellington, 4 dwell., 18' 6" x 36', three-story flat; C. W. Wellington, builder.

East Seventh St., No. 537, Ward 14, for Eugene Simmons, store, 22' x 51', one-story flat; A. C. Barstow, builder.

Hanover St., Nos. 344-348, Ward 6, for John Lythgoe, dwell. and store, 33' x 42', four-story flat; ell, 18' x 20'; M. S. & G. W. Miller, builders.

West Broadway, No. 454, Ward 14, for John M. Power, dwell. and store, 27' x 60', three-story flat.

Hanover St., Nos. 426 and 428, cor. Fountain Pl., Ward 6, for Godfrey Morse, dwell., 30' x 42' 6", four-story flat; J. H. Kelly, builder.

Wood.—Sherman St., cor. Temple St., Ward 4, for Osgood & Hart, iron-foundry, 40' and 60' x 111'; ell, 40' and 46' x 50' and 70', one-story flat.

Florence St., near Ashland St., Ward 23, for Thos. C. Bennett, dwell., 20' and 26' x 30', two-story pitch; Alex. Rogers.

Torrey St., near Washington St., Ward 24, for W. H. Maxcy, dwell., 14' and 15' x 22' and 28', two-story pitch; Miles H. Jackson, builder.

Ecans St., opposite Stanton St., Ward 24, for C. M. Hickey, dwell., 20' and 26' x 42', two-story pitch; J. H. Burt & Co., builders.

Harve St., No. 134, Ward 2, for Robert Ring, dwell., 21' x 33', three-story flat.

Dudley St., No. 781, Ward 20, for Geo. P. Brooks, store, 18' and 25' x 43' and 50', one-story flat.

Clifton St., near Batchelder St., Ward 20, for Amos D. Gould, dwell., 22' and 28' x 31', two-story pitch; A. D. Gould, builder.

West Cottage St., Nos. 33-37, Ward 20, for D. & W. Jamieson, 3 dwell., 21' 7" x 61' 7", 22' and 26' 6" x 45', and 22' 7" x 52', three-story flat; Herman Drake, builder.

Milton Ave., near Norfolk St., Ward 24, for Edward Barker, dwell., 21' and 26' x 28', one-story pitch; J. & F. H. McDonald, builders.

Centre St., near Dorchester Ave., Ward 24, for Ira A. Medbury, dwell., 20' and 24' x 30', two-story pitch.

Brooklyn.

BUILDING PERMITS.—*Conservatory St., Nos. 50 and 52, s s 24th e Lorimer St., 2 two-story frame dwellings, tin roofs; cost, \$7,500 for both; owner, Albert Meyers, Conservatory St., near Leonard St.; architect, Geo. W. Springsteen; builder, A. McKnight.*

Palmetto St., s s 12th e Central Ave., three-story frame tenement; cost, \$3,000; owner, Adam Schwerdt, Central Ave.; builder, Jacob Miller.

Quincy St., n s 10th w Throop Ave., 4 two-story brown-stone dwellings, tin roofs; cost, each, \$4,000; owner, Jas. W. Stewart, 45 Bedford Ave.; architect, M. Walsh.

Bushwick Ave., e s 100th n Johnson Ave., four-story frame store and tenement, tin roof; cost, \$6,300; owner and builder, Adam Kres, 129 Montrose Ave.; architect, J. J. Smith.

Broadway, n e cor. Vanderveer St., three-story frame store and tenement, tin roof; cost, \$4,300; owner, J. Savino, Vanderveer St.; architect, John Platte; builders, R. Cooke and J. Polmann.

Nineteenth St., n w cor. Eighth Ave., three-story frame store and dwell., and 5 two-story frame dwellings, tin roofs; cost, one \$2,000, and five \$1,500 each; owner,

James Warner, Fourteenth St., cor. Fifth Ave.; architect and builder, Jas. Crocker.

Dupont St., s s 600th w Oakland St., three-story frame store and tenement, felt, gravel and cement roof; cost, \$3,800; owner, John Creighton, Dupont St.; architect, J. Denner; builders, John Hafford and Port & Walker.

Lafayette Ave., s s 250th e Broadway, and Van Buren St., n s 350th e Broadway, 5 two-story frame dwellings, tin roofs; cost, \$3,500 each; owner, Thos. Elison, 1134 Lafayette Ave.; builders, John Auer and John Fletcher.

Powers St., s s 112th w Catharine St., three-story frame tenement, tin roof; cost, \$3,000; owner, Jacob Beilman, 316 Powers St.; architect and mason, Christ. Buchheit; carpenter, Anton Anian.

Bushwick Ave., w s 28th a Wall St., three-story frame store and tenement, tin roof; cost, \$4,600; owner, Jacob Bosert, 1007 Harrison Ave.; architect, John Platte; builder, Jacob Rauth.

Marion St., n s 178th e Patchen Ave., three-story frame tenement, tin roof; cost, \$3,900; owner, Knapp Martin, 139 Marion St.; builder, Jacob Pirrung.

Fifteenth St., n s 258th w Fourth Ave., three-story frame tenement, tin roof; cost, \$6,000; owner and carpenter, Warren W. Mitchell, 173 Reid Ave.; architect, C. Edson; mason, J. Baur.

Dean St., s s 88th w Vanderbilt Ave., three-story brick tenement, tin roof; cost, \$4,500; owner, Thos. R. Farrell, 824 Atlantic Ave.; architect, F. Jezek; builders, W. L. Roundtree and Leonard Bros.

Magnolia St., n s 100th e Irving Ave., three-story frame store and tenement, tin roof; cost, \$1,500; owner, Chas. Reek, 204 Central Ave.; architect, H. Vollweiler; builders, Thomas C. Phillips and Jacob Phillips & Sons.

Platbush Ave., s s 378th e Fourth Ave., two-story brick building for business purposes, tin roof; cost, \$10,000; owners, G. F. & E. C. Swift, Boston, Mass.; architect, Fred. C. Miller; builder, B. F. Bailey.

Monteith St., n s 50th w Bremen St., 2 three-story frame tenements, tin roofs; cost, \$4,000 each; owner, F. Kirchenheiter, 37 Monteith St.; architect, H. Vollweiler; builder, Geo. Loefler.

Hall St., w s 80th e Park Ave., three-story frame flat, tin roof; cost, \$4,500; owner, M. Crowell, 74 Hall St.; architect, R. B. Eastman; builders, J. Fardon and Wm. Sheppard.

Garfield Pl., s s 92nd 10th e Seventh Ave., 4 three-story brown-stone dwellings, tin roofs, wooden cornices; cost, each, \$10,000; owners, etc., Martin & Lee, 440 Clermont Ave.

Central Ave., No. 240, e s 100th e Meserole St., three-story frame store and tenement, tin roof; cost, \$4,300; owner, Jacob Bosert, Flushing Ave., cor. Wyckoff Ave.; builder, John Rueger.

Dean St., n s 100th e Franklin Ave., two-story brick stable, tin and slate roof; cost, \$3,500; owner, W. F. Butler; architects, Rossiter & Wright; builder, J. C. Sawkins.

Evergreen Ave., s w cor. Greene Ave., three-story frame store and tenement, tin roof; cost, \$5,500; owner, Chas. W. Smyth, 84 Taylor St.; architect, E. E. Taylor; mason, Jacob Schoch; carpenter, not selected.

Clinton Ave., e s 240th e Myrtle Ave., 3 three-story brown-stone dwellings, tin roofs; cost, each, \$9,000; owner and builder, John Gordon, on premises; architect, Robert Dixon.

ALTERATIONS.—*Bowen St., s s 140th w Richards St., add another story to building, gravel roof; cost, \$5,000; owners, H. R. Worthington & Co., on premises; builder, E. Osborne.*

Hicks St., Nos. 408-422, repair damage by fire; cost, \$7,500; owner, Jacob Lorillard, 189 Broadway, New York; architect and builder, B. Wallace.

Chicago.

BUILDING PERMITS.—*M. J. Deward, three-story store and dwell., 333 and 335 North Ave.; cost, \$7,000; architect, A. F. Boos; builder, N. Garton.*

Marshall Field, eleven-story office-building, 178 to 192 LaSalle St.; cost, \$400,000; architect, S. S. Beman; builder, W. Pashley.

G. Hawkins, two-story dwell., Michigan Ave.; cost, \$25,000.

L. C. Huck Maltng Co., two additional stories, Canal St., cor. Eighteenth St.; cost, \$15,000.

Thos. Nissen, three-story store and flats, 886 and 888 North Halsted St.; cost, \$12,000; architect, F. Berlin; builder, A. R. Peck.

S. E. Gross, 6 cottages, Sacramento Ave.; cost, \$2,000.

S. E. Gross, 7 cottages, Monroe St.; cost, \$10,000.

S. E. Gross, 7 cottages, Colorado St.; cost, \$10,000.

T. Bueoski, two-story dwell., 95 Cleaver St.; cost, \$3,500.

Walker & Lauritzen, 2 two-story dwellings, 3637 and 3639 Dearborn St.; cost, \$6,000.

F. Konwalinska, three-story dwell., 162 Bunker St.; cost, \$4,000.

J. G. Earle, one-story addition, Cottage Grove Ave., cor. Thirty-seventh St.; cost, \$4,000.

W. W. Alport, two-story store and flats, California Ave., cor. North Ave.; cost, \$10,000; architect, Otto Matz; builder, G. Peterson.

J. F. Borchardt, two-story store and dwell., 403 Ogden Ave.; cost, \$4,000.

E. J. Lehmann, four-story store and dwell., 344 State St.; cost, \$14,000; architects, Treat & Foltz; builders, Rodner Bros.

W. C. Polzin, three-story store and dwell., 3804 State St.; cost, \$8,000.

J. Williams, three-story store and flats, 177 East North Avenue; cost, \$7,000.

B. Klein, two-story dwell., 423 Twenty-sixth St.; cost, \$3,300.

R. E. Shimmman, two-story flats, 22 Ogden Pl.; cost, \$3,500.

C. Morton, two-story store and dwell., 1126 Harrison St.; cost, \$2,000.

J. Blacklock, two-story dwell., 84 Page St.; cost, \$2,800.

M. Wenter, cottage, 86 Fowler St.; cost, \$3,700.

K. Kebab, two-story factory, 479 and 481 Jefferson St.; cost, \$7,000; architect, W. H. Drake; builder, J. Conway.

John Becker, two-story dwell., 775 Larrabee St.; cost, \$8,000.

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J. L. Burke, three-story store and dwell, 2133 Archer Ave.; cost, \$5,000.
M. McAuley, two-story flats, 123 Green St.; cost, \$2,700.
A. Sittig, two-story dwell, 991 Halsted St.; cost, \$1,400.
J. R. Ort, two-story store and dwell, 450 Twenty-sixth St.; cost, \$5,200.
Peter Jone, four-story store and flats, 312 West Twelfth St.; cost, \$7,000; architect, P. W. Kuehl; builder, C. Kies.
S. Michrod, three-story dwell, 3210 Wabash Ave.; cost, \$7,000.
Chas. Gelspie, three-story flats, 108 Centre Ave.; cost, \$6,000; architect, W. Thomas; builder, J. McCann.
H. Brinkman, two-story store and flats, 3840-3841 State St.; cost, \$10,000; architect, S. Frey; builder, G. Snyder.
C. G. Anderson, four-story store and flats, 198 West Erie St.; cost, \$5,000; builder, G. Olsson.
P. J. Walker, two-story store and dwell, 3801 La Salle St.; cost, \$2,500.
M. Duffly, two-story dwell, 2625 Cottage Grove Ave.; cost, \$2,500.
Central Mfg Co., five-story addition to factory, 37 to 41 Armour St.; cost, \$7,000.
H. M. Dupee, three-story warehouse, Twenty-fifth St. cor. Arnold St.; cost, \$17,000; architect and builder, Wm. K. Berger.
N. S. Goodman, two-story dwell, 26 Cypress St.; cost, \$3,200.
B. F. Baker, two-story dwell, 1042 and 1044 Harrison St.; cost, \$5,000.
F. Riddle, two-story store and flats, 3109 and 3111 State St.; cost, \$7,000; architect, J. F. Wiston; builders, A. D. Kimers & Bro.
L. Franz, three-story store and dwell, 158 Eighteenth St.; cost, \$5,300.
A. Otto, two-story dwell, 131 Mohawk St.; cost, \$3,000.
J. Henshaw, two-story store and dwell, 355 Division St.; cost, \$2,500.
C. B. Carter, 3 three-story store and flats, 190-194 Thirty-first St.; cost, \$40,000; architects, J. M. Van Osdol & Co.
G. W. Smith, five-story store, 190 Michigan St.; cost, \$9,000; architect, E. Bauman; builders, Moss & Chambers.
F. Enders, three-story store and dwell, 18 Chicago Ave.; cost, \$6,500; architect, J. Bruhns.
Mrs. M. Parrott, two-story flats, 1152 and 1154 Harrison St.; cost, \$6,000.
Wm. Baker, two-story flats, 3743 Dearborn St.; cost, \$3,500.
P. H. Stanton, three-story dwell, 2121 Dearborn St.; cost, \$7,000.
F. Wolff, one-story dwell, 707 West Monroe St.; cost, \$4,000.
H. Lumbard, 2 two-story dwells, 49 and 51 Warren Ave.; cost, \$7,000.
Mrs. C. Price, three-story dwell, 71 Maple St.; cost, \$10,000; architect, F. B. Townsend; builder, C. H. Moses.
J. K. Fisher, additional story and repairs, 191 Michigan Ave.; cost, \$50,000.

Cincinnati.

BUILDERS' EXCHANGE.—The sixth annual meeting of the Builders' Exchange was held March 3, 1884. The Exchange has taken a firm hold, and is now recognized as one of the permanent institutions of the city, and has a membership of 250.

The principal business of the annual meeting was the election of officers, which resulted as follows: the Independent ticket being victorious: President, Robert Thomas; Vice-Presidents, Wm. A. Megrue, Frank S. Rohan; Treasurer, J. M. Blair; Secretary, Lawrence Mendenhall; Directors, Chas. Crapsey, J. H. Finigan, Dennis Flaherty, Lawrence Grace, J. C. Harwood, H. E. Holtzinger, T. E. Livezey, J. G. Mediarvey, L. Mendenhall, J. B. Schroder.

Kansas City.

BUILDING PERMITS.—B. A. & John S. Taylor, residence, 1512 Oak St.; cost, \$6,000.
John W. Riken, store, n e cor. Twentieth and Main Sts.; cost, \$6,000.
Mattie E. Walker, brick residence on Forest Ave.; cost, \$2,000.
A. Audlauer, brick residence, East Kansas; cost, \$2,500.

STORE.—Judge H. W. Ide, of Leavenworth, Kans., will build a \$35,000 store at the cor. of Ninth and Central Sts.

CHURCH.—The Vestry of Trinity Church has selected designs and let the contract for a new church to be built at Tenth St., cor. Tracy Ave. The building is to be of stone, with a seating capacity of six hundred, and will cost about \$20,000.

New York.

APARTMENT-HOUSES.—A five-story brick and stone improved apartment-building, 50' x 90', is to be built on the n e of Twenty-eighth St., w of Sixth Ave., for the T. H. Smith Estate, at a cost of about \$60,000, from designs of Messrs. Chas. W. Komeyn & Co.

Seventy-third St., between Fifth and Madison Aves., 3 five-story brick and terra-cotta apartment-houses; cost, \$75,000; owner, M. A. Lyddy; architect, J. M. Merrick.

Mr. Edward V. Loew will have built a five-story apartment-house, 30' x 80', on the n s of Sixty-first St., e of First Ave.

HOUSES.—Mr. Daniel Hennessy will build, on the s e cor. of Fourth Ave. and Seventy-third St., 10 four-story private houses, at cost about \$250,000; Messrs. Thom & Wilson, architects.

For Mr. Charles Fleming, 3 three-story brick houses are to be built on the n w cor. of St. Nicholas Ave. and One Hundred and Fifty-second St., from designs of Mr. Jas. E. Ware.

For Mr. A. Irvine, a two-story store and dwell, 25' x 50', is to be built on the s e of Seventy-fourth St., between Second and Third Aves.; Mr. John Brandt, architect.

TENEMENT-HOUSES.—Mr. Michael Duffly proposes to build 21 five-story brick and stone tenement-houses,

25' x 50', each, on One Hundred and Second and One Hundred and Third Sts., between Second and Third Aves., at a cost of about \$300,000; Mr. Andrew Spence, architect.

BUILDING PERMITS.—Cannon St., No. 123, five-story brick tenement, tin roof; cost, \$10,000; owner, Valentine Hill, 131 Cannon St.; architect, Julius Beckoli.

Washington St., n w cor. West Twelfth St., four-story brick tenement, tin roof; cost, \$12,000; owner, Wm. W. Warner, 166 West Seventy-ninth St.; builder, J. Jordan.

Boulevard, n e cor. Sixty-eighth St., three-story brick and stone building, for church, Sunday-school and parsonage, slate and tin roof; cost, \$80,000; owner, the Bloomingdale Reformed Church, Rev. Carlos Martin, 439 West Seventy-third St., pastor; architect, S. B. Reed, of Consistory.

Fifty-second St., n s of 50' w Third Ave., four-story brick store and tenement, tin roof; cost, \$14,000; owner, Thos. Regan, 85 Third Ave.; architect, J. C. Burne; builder, not selected.

Third Ave., No. 247, four-story brick tenement, tin roof; cost, \$9,000; owner, Emanuel Frankfeld, 222 East Twentieth St.; architect, Wm. Graul.

Third Ave., Nos. 249 and 251, 2 four and five story brick provision houses, tin roofs; cost, each, \$24,000; owner and architect, same as last.

Forty-seventh St., s s of 162' e Tenth Ave., five-story brown-stone tenement, tin roof; cost, \$21,000; owner and builder, Peter Wagner, 317 West Fifty-fourth St.; architect, M. Louis Unglich.

Tenth Ave., No. 438, five-story brown-stone tenement, tin roof; cost, \$14,000; owners, Jacob and Salome Huber, 511 West Twenty-ninth St.; architect, R. H. Beselmeier.

West One Hundred and Twenty-fourth St., Nos. 108, 110 and 112, 3 five-story brick and brown-stone tenements, tin roofs; cost, total, \$15,000; owner, Jacob Bittrorf, 108 West One Hundred and Twenty-fourth St.; architect, C. Kinkel.

Ave. A, w s 75' s Seventy-second St., 2 five-story brick tenements, tin roofs; cost, each, \$14,500; owner, Peter Stastny, 128 Ave. A; architect, J. Brandt; builder, G. D. Schmid.

West Sixteenth St., No. 317, five-story Dorchester stone tenement, tin roof; cost, \$9,500; owner, James O'Donnell, 315 West Sixteenth St.; architect, F. W. Kient.

Stebbins Ave., e s 103' n One Hundred and Sixty-seventh St., three-story frame dwell, tin roof; cost, \$2,000; owner, Andrews C. Foght, 218 East Twenty-first St.; architects, Berger & Bayles.

West Sixteenth St., No. 347, five-story brown-stone front flat, tin roof; cost, \$18,000; owner, Elizabeth Seltz, 18 Beckman Pl.; architect, John Brandt.

Ninth Ave., No. 331, five-story brick tenement, tin roof; cost, \$13,500; owner, John W. Theisz, 511 East One Hundred and Eighteenth St.; architect, F. W. Kient.

Thirty-second St., s s e of First Ave., three-story brick stable and office, gravel roof; cost, \$5,000; owners, Chas. and Geo. Lowther, 104 West Forty-fourth St.; architect, M. N. Cutter.

ALTERATIONS.—East Eleventh St., No. 216, add one story, flat tin roof, etc., altered for three families; cost, \$4,300; owner, Wm. Wisco, 410 Second Ave.; architect, J. Kastner.

East Thirty-third St., Nos. 215-231, one-story brick extension, tin roof; cost, \$20,000; owner, Fred. J. Kaltenberg, 125 Fulton St.; architect, Adam Weber.

One Hundred and Twenty-fifth St., n s 260' w Third Ave., add three stories, iron-work on front; cost, \$21,500; owner, G. G. Grenell, 149 East One Hundred and Twenty-fifth St.; architect and builder, G. Robinson, Jr.

Franklin St., Nos. 195 and 197, lower beams and girders, put in new flooring, new front, etc.; cost, \$3,500; owners, Holmes & Coutts; architects, Wm. Field & Son.

One Hundred and Seventy-seventh St., s s 200' e Central Ave., two-story frame extension and internal alterations; cost, \$3,600; owner, John Crawford, 174 West Fifty-eighth St.; architect, S. B. Reed; builders, Outwater & Felner.

Third Ave., Nos. 720-734, 8 buildings, one and four story extensions, tin roofs, also internal alterations; cost, \$65,000; owner, Thos. B. Gilford, 473 Lexington Ave.; architects and builders, Charles Graham & Sons.

Philadelphia.

MEDICAL COLLEGE.—The Hahnemann Medical College Building will soon be erected on Broad St., above Race St., and will have a frontage of 70' and a depth of 95', basement and first story of brown-stone, balance of brick and terra-cotta, to be four stories high, with central tower; cost, about \$90,000; plans prepared by G. W. & W. D. Hewitt, architects.

SCHOOL-HOUSE.—The trustees of the new Catholic High School have decided upon a site for the building, on the n e cor. of Broad and Vine Sts. It will be some time before all leases on the property will expire.

BUILDING PERMITS.—North Second St., No. 231, four-story storeroom, 24' x 150'; C. B. Porter, owner.

Twenty-ninth St., cor. Parrish St., two-story stable, 24' x 72'; Louis Bergdoll Brewing Co., owners.

Thirty-fifth St., n of Sunnyside Ave., three-story dwell, 17' x 34'; Geo. Fillow, owner.

Lawrence St., s of Huntingdon St., 8 two-story dwells, 16' x 38'; Geo. Kessler, contractor.

Lawrence St., s of Huntingdon St., 10 two-story dwells, 13' x 26'; Geo. Kessler, contractor.

Eighth St., cor. Dickinson St., three-story store and dwell, 20' x 58'.

Catharine St., w of Broad St., four-story tin and smith shop; E. Cubberly, contractor.

Mervine St., s w cor. Montgomery St., two-story stable, 19' x 25'; smoke-house, 17' x 24', and alterations to building; T. McCarty, contractor.

Chestnut St., No. 3018, three-story brick building, 20' x 45'; G. Kessler, contractor.

Hancock St., n of Oxford St., three-story addition to factory, 20' x 30'; David Mayhew, contractor.

Westmoreland St., cor. Memphis St., laboratory; 35' x 72'; Druey Bros. & Co., owners.

Germantown Ave., near Marshall St., two-story smith-shop, 66' x 40'; Eldridge & Stewart, contractors.

Base St., s s of 100' w Third Ave., two-story dwell, 16' x 60'; Chas. Daney, owner.

St. Louis.

BUILDING PERMITS.—One hundred and twenty permits have been issued since our last report, of which are for unimportant frame houses, the rest those worth \$2,500 and over are as follows:—

Mrs. A. Kalle, 3 adjacent two-story brick dwell, cost, \$8,500; H. Schulte, contractor.

J. H. Smart, two-story brick dwell; cost, \$5,000; contract sub-let.

P. Tierney, two-story brick dwell; cost, \$5,000; A. Mornann, contractor.

Wm. Klute, two-story brick dwell; cost, \$5,000; Schellman & Gross, contractors.

Conrad Grote, two-story brick dwell; cost, \$5,000; C. F. May, architect; H. Drees, contractor.

Mrs. Ellen E. Sherman, two-story brick dwell, cost, \$8,000; James McGrath, architect; B. W. Co., contractors.

Mrs. Ellen E. Sherman, two-story brick dwell, cost, \$8,000; James McGrath, architect; B. W. Co., contractors.

Luke McLaughlin, two-story brick dwell, cost, \$5,000; J. H. McNamara, architect; L. McLaughlin, contractor.

Wm. F. Niedringhaus, two-story brick dwell, cost, \$5,000; A. Beinke, architect; E. T. Hoffmann, tractor.

J. F. Yaeger, two-story brick dwell; cost, \$5,000; Z. T. Knott, contractor.

J. Fanneck, two-story brick dwell; cost, \$5,000; A. Dietz, contractor.

J. Verdin, 2 adjacent two-story brick dwells, cost, \$8,000; J. A. Conlon, contractor.

L. H. C. Lindsley, two-story brick dwell; cost, \$3,000; J. B. Lindsley, architect and contractor.

A. Brudling, agent, three-story school-house, cost, \$9,000; A. Brudling, architect; contract sub-let.

L. Stutz, two-story dwell; cost, \$5,000; A. J. architect; W. Gahl, contractor.

St. Paul, Minn.

BUILDING PERMITS.—Thomas Bowers, the frame dwell, on West Seventh St., between 1st and Duke Sts.; cost, \$8,000.

F. H. Dayton, one-story frame roller rink, J. St., between Tenth and Pearl Sts.; cost, \$3,500.

Frank Danz, three-story double brick, 6th St., between Franklin and Exchange Sts.; cost, \$5,000.

Conrad Wurm, two-story brick veneered stone dwell, on Seventh St., between Randolph and Sts.; cost, \$2,400.

Bids and Contracts.

CINCINNATI, O.—The following is a synopsis for iron galleries and stairs for the custom and post-offices:—

Snead & Co. Iron Works, \$5,512; additional aggregate, \$5,807.

McHose & Lyon, \$6,000; additional steel aggregate, \$6,230.

Haugli, Ketcham & Co., \$6,072.45; additional aggregate, \$6,317.27.

Joseph Hall & Co., \$7,630; additional steel aggregate, \$7,880.

M. Clements, \$7,644; additional stair, \$240; gate, \$7,884.

CONCORD, N. H.—The contract for furnishing granite for the new railway station is awarded to Sargent & Sullivan of this city.

QUINCY, ILL.—The following is a synopsis for stone-work for post-office, court-house, Indiana Oolitic Limestone Company, Oolitic stone, \$37,991 (accepted).

W. D. Collingwood, \$42,346; Bedford, Ten Blatz & Krebs, \$50,572; Bedford, 225 days.

Larkworthy & Menke, \$54,350; Bedford steps, \$63,500; Quincy, Bedford steps.

Scott Weber, \$54,454; Bedford, September.

M. A. McGowan, \$55,101.25; Quincy 112 months; \$66,084.18, Illinois limestone.

Smith, Sargent & Co., \$55,737; Lemon months; \$60,131; Bedford, fifteen months.

E. R. Brainard, \$52,495.22, Indiana 11 October, 1885; \$58,608.82, Illinois limestone, 1885.

Hughes & Dugan, \$63,690; Bedford or burg, eighteen months.

James A. McDonigle, \$67,635; Bedford, ten months.

Sales, Burns & Co., \$79,009; Bedford, 450.

Thomas Osborne, \$83,000, eight months.

The Young & Farrell Diamond Stone and Company, \$104,239; Lemont, December 1, 1884.

COMPETITION.

PUBLIC LIBRARY BUILDING. (At Boston.)

The Committee on Public Library, have authorized to procure plans for a new public building, to be erected on the lot bounded by month Street, St. James Avenue and Bowline, and being desirous of interesting architects and being desirous of the same, hereby offer the best plan for \$4,000, \$3,000, \$2,000, and \$1,000, to the authors of the four best designs, and the order of their merit.

The plans for which premiums are awarded become the property of the city, with the whole or any part, or any modification without further claim from the authors for tion or employment.

All designs must be sent to the Trustees of the Library on or before August 1, 1884.

Further particulars may be had by applying to H. H. Lee, Clerk of Committee, City Hall.

For the Committee.

CHARLES V. WIL

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

295,523. HAND-BORER. — Willard E. Clough, Concord, N. H.
 295,524. BORING-MACHINE. — Willard E. Clough, Concord, N. H.
 295,525. COMPOUND FOR WATER-PROOFING AND PRESERVING BUILDINGS. — Benjamin DeNise, Camden, N. J.
 295,527. FIRE-ESCAPE. — Robert Emlah Downey, Clinton, O.
 295,530. NAIL-FASTENER. — Samuel Farquhar, Newton, Mass.
 295,537. WEATHER-STRIP. — Eugene E. Gillett, Western Union, Wis.
 295,541. SHINGLE SHAVING AND RIFTING MACHINE. — Appleton Gould, Bangor, Me.
 295,558. BRICK-MACHINE. — Philip Henry Kells, Adrian, Mich.
 295,570. FIRE-ESCAPE. — Abraham W. Lozier, New York, N. Y.
 295,571. CLAW-BAR. — William H. Lyman, Springfield, Mo.
 295,578. ATTACHMENT FOR SCAFFOLDING. — John T. O'Brien, Philadelphia, Pa.
 295,579. INTERIOR AND EXTERIOR SCAFFOLDING. — John T. O'Brien, Philadelphia, Pa.
 295,581. COMBINED DOOR-PLATE AND MAIL-RECEIVER. — Robert G. Pace and Walter J. Wey, Lynchburg, Va.
 295,582. HANDLE FOR DIAL-LOCK KNOBS. — Tracy L. Paine, Milwaukee, Wis.
 295,589. CABINET-MAKER'S CLAMP. — William E. Sheldon, Jr., Medford, Mass.
 295,592. SCAFFOLDING. — Thomas N. Subers, Philadelphia, Pa.
 295,593. SAFETY-WINDOW. — Friedrich Oskar Thiem, Leipzig, Germany.
 295,594. ROOFING-COMPOSITION. — Welcome White, Everett, Mass.
 295,599. NAIL-BALANCE. — Mahlon B. Gladman, Hopkins, Mo.
 295,631. FIRE-ESCAPE. — Laura J. Gott, La Grange, Ohio.
 295,667. LUMBER-KILN. — Ephraim Myers, Suspension, Ala.
 295,674. SAFETY-STOP FOR ELEVATORS. — Ellison Saunders, Austin, Tex.
 295,686. ELECTRIC HOT-AIR FURNACE REGULATOR. — Frank Miller Sparrow, Mattapoisett, Mass.
 295,687. CHIMNEY-COWL. — Emil K. Staech, Cornhill, N. Y.
 295,691. WATER-CLOSET VALVE. — Henry A. Tobey, Dayton, O.
 295,692. BRICK. — Albert Trochler, Boston, Mass.
 295,704. STEAM-RADIATOR. — Eliza T. Weymouth, Brooklyn, N. Y.
 295,722. SHINGLE-SAWING MACHINE. — Samuel L. Blitting, Big Creek, Miss.
 295,723. FIRE-ESCAPE. — Virgil W. Blanchard, New York, N. Y.
 295,743. HANGING-DOORS. — Charles W. Emerson, Charlestown, Mass.
 295,744. BRICK AND TILE KILN. — William A. Eubaly, Cincinnati, O.
 295,795. DOOR-LATCH. — Willard F. Oliver, Lynn, Mass.
 295,797. RATCHET-WRENCH. — Adelbert E. Osborn, Waco, Tex.
 295,817. DUPLEX BRACE-HINGE. — Amos W. Sangster, Buffalo, N. Y.
 295,829. SEWER-BASIN. — William Siering, Newark, N. J.
 295,833. WOOD-SCREW. — George A. Stiles, West Gardner, Mass.
 295,847. SADDLE-BOARD. — Joseph A. Wilson, Chester, Vt.
 295,964. BRICK AND TILE KILN. — William A. Eubaly, Cincinnati, O.
 295,871. BRICK AND TILE MACHINE. — Abraham Horrocks, Bardolph, Ill.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report forty-three permits have been granted, the more important of which are the following:—
 F. O. Singer, three-story brick building (square) and two-story brick stable in rear, w s Front St., n of Winchester St.
 D. Kroll, three-story brick building (square), w s Beale Ave., n of Federal St.
 C. L. & J. S. Clark, three-story brick buildings, w s Eden St., s of Oliver St.
 J. L. Bowen, 27 two-story brick buildings (square), w s Washington Ave., between Cross and Stockholm Sts.
 Rachel Pratt Library, one-story brick building, cor. O'Donnell and Canton Sts.
 St. Vincent's Infant Asylum, three-story and basement brick building, n e cor. Division and Townsend Sts.
 Wm. Hempel, three-story brick building, e s Gay St., between Monument St. and Central Ave.

Mrs. Paul, 3 three-story brick buildings, n w cor. Light and Barney Sts.
 Wm. W. Dashiell and Henry Schaumberg, 1 three-story and 9 two-story brick buildings, commencing n w cor. Riverside Ave. and Clement St.
 Atlantic Furniture Co., two-story brick building, 38' x 70', e s Falls Ave., between Lombard and Graybiy Sts.
 John H. Garrettsen, 10 three-story brick buildings, e s St. Paul St., between Townsend St. and North Ave.
 The Labor Quotations remain unchanged.

Boston.

BUILDING PERMITS.—*Brick.*—*Champney Pl.*, near Champney St., Ward 15, for Ulrich Wilhelm, dwell., 20' x 22', two-story flat; Ulrich Wilhelm, builder.
St. James St., cor. Warren and Regent Sts., Ward 21, for Donald Kennedy, tenement and store, 80' x 107' and 172', five-story flat; L. F. Soule, builder.
Spencer's Alley, cor. Cotton Pl., Ward 12, for Leonard Ware, mercantile, 20' x 37' and 49', two-story flat; ell, 24' x 45' and 55'; D. H. Jacobs & Son, builders.
Thomas Park, No. 39, Ward 11, for Henry B. Stratton, dwell., 21' x 36', three-story flat; Henry B. Stratton, builder.
Edgeworth St., No. 78, and *Ferris St.*, No. 51, Ward 3, for Geo. E. Fox, dwell., mercantile and storage, 24' and 25' x 32', three-story flat; Michael D. Powers, builder.
Atlantic Ave., Nos. 396-404, Otis Wharf, Ward 12, for L. Pickett & Co., boiler-house, 20' x 30', one-story flat.
Wood.—*Winter St.*, near Church St., for Rustes Gordon, 2 dwell., 12' x 12' and 19' x 25', two-story pitch; Rowland Merrill, Jr., builder.
Scott Hill Ave., near Pleasant St., Ward 24, for Edw. McKee, dwell., 13' and 20' 6" x 25' 6", two-story pitch; Edw. McKee, builder.
Cambridge St., n e cor. Saunders St., Ward 25, for Jos. C. Wadleigh, dwell., 8' x 24' and 32' x 27' and 33', two-story pitch; Jos. C. Wadleigh, builder.
Centre St., near London Lane, Ward 23, for Artemus Winchester, dwell., 13' x 13' and 24' x 36', two-story pitch.
Macwell St., near Milton Ave., Ward 24, for Chas. A. Chase, dwell., 10' x 13' and 30' x 30', two-story pitch; Patrick F. Hannon, builder.
E St., No. 269, Ward 15, for W. E. Elliot, carpet-beating, 24' x 60', one-story flat; Delano & Little, builders.
Delle Ave., near Phillips St., Ward 23, for Bernard Dooney, dwell., 24' x 45', three-story flat; Fred McKee, builder.
Saratoga St., No. 742, Ward 1, for John Benson, storage, 18' x 25', one-story pitch.
Washington Ave., near Harvard St., Ward 24, for William Schmalz, store, 11' x 20', one-story pitch; Wilder, builder.
East Twenty St., Nos. 646 and 648, Ward 14, for O. Woods, 2 dwell., 15' x 21' and 8' x 39', three-story flat.
Sheldon St., rear, near Ashland St., Ward 23, for Chas. H. Herman, stable, 20' x 30', one-story pitch.
Gates St., No. 75, Ward 15, for Henry B. Stratton, dwell., 24' x 42', two-story flat; Henry B. Stratton, builder.
Regent St., near Ray St., Ward 21, for Ellen Hackett, 2 dwell., 11' and 20' x 47', one-story hip; Lawrence Grant, builder.
Tremont St., No. 1157, Ward 19, for Timothy J. Leddy, reception-room, 6' x 14', one-story flat; John Gray, builder.
Evans St., near Capens St., Ward 24, for W. W. Donnelly, 2 dwell., 22' x 31', two-story pitch.
Fox St., near Adams St., Ward 24, for Albert C. Parker, dwell., 12' x 25' and 21' and 20' x 27', one-story pitch; Byron L. Brown, builder.
McLean Ave., cor. Erie Ave., Ward 24, for Frank M. Silva, 2 dwell., 20' x 37', two-story pitch; M. Silva, builder.
Newport St., cor. Harbor View St., Ward 24, for James Young, dwell., 24' x 42', two-story pitch; Wm. Coady, builder.
Glenn St., opposite Merrill St., Ward 21, for Ruth S. Lowe, dwell., 32' x 34', two-story pitch.
Call St., opposite Everett St., Ward 23, for B. F. Cobb, lumber-shed, 30' x 52', two-story pitch; J. Swanbury, builder.
West Sixth St., No. 120, near D St., Ward 13, for Augustus A. Key, dwell., 24' 10" x 45' 10", three-story flat.

Brooklyn.

BUILDING PERMITS.—*Quincy St.*, s s, 450' w Ralph Ave., two-story brick dwell., tin roof; cost, \$3,000; owner, etc., Jas. Stewart.
Broadway, No. 657, e s, 50' n Yates Pl., three-story brick store and flats, tin roof, iron cornice; cost, \$8,500; owner, Nathan Levy, Broadway, c. r. Division Ave.; architect, Th. Engelhardt; builders, Geo. Lehman & Son and K. B. Ferguson.
Twelfth St., n s, 40' w Seventh Ave., 2 three-story brick and brownstone trimmed tenements, tin roofs; cost, each, \$5,000; owner and architect, A. G. Under, 302 Thirteenth St.
Rackson St., s s, 150' w Graham Ave., three-story frame tenement, tin roof; cost, \$4,000; owner, Henrietta Jacobson on premises; architect, G. Hallen-Grand; builders, Heilmann & Wagner.
Union St., n s, 240' e Seventh Ave., 5 three-story and basement brownstone tenements, tin roofs; cost, each, \$10,000; owner and architect, John Maglignan, 68 Berkeley Pl.
Pacific St., s s, 70' w Clason Ave., 5 three-story brick tenements, gravel roofs, wooden cornices; cost, each, \$5,000; owner, architect and builder, William Taylor, 83 Third Pl.
Powers St., Nos. 68 and 70, s s, about 125' e Lorimer St., 2 three-story frame tenements, tin roofs; cost, each, \$5,500; owner, John Wiscenko, 450 Grand St.; builders, Michael Keupp and E. Schoch.
George St., n s, 200' e Central Ave., three-story frame factory, gravel roof; cost, \$4,500; owner, John G. Jenkins, cor. First St. and Broadway; architect, E. F. Taylor; builders, T. Gibbons and Jenkins & Gibbs.
Cotton Pl., s s, 320' w Nostrand Ave., 15 two-story cement brownstone dwell., tin roofs; cost,

each, \$6,000; owner, William Andrews, 3 Beekman St., New York; architect, H. L. Bulkley.
Union St., s s, 150' e Seventh Ave., 3 three-story brownstone dwell., tin roofs; cost, each, \$11,000; owner, architect and builder, E. B. Sturges.
Ninth Ave., n w cor. Twentieth St., three-story frame store and tenement, tin roof; cost, \$4,500; owner, James Daly, Ninth Ave., near Twentieth St.; architect, W. H. Wirth; builder, L. Hickey.
Skidman Ave., No. 169, n s, 75' e Graham Ave., two-story frame dwell., tin roof; cost, \$4,000; owner, Barbara Metzger, cor. Graham and Skidman Aves.; architect, Th. Engelhardt; builders, Geo. Doering and John Frey.
Freeman St., No. 147, three-story frame tenement, gravel roof; cost, \$3,600; owner, — Fullerton, on premises; architects and carpenters, Randall & Miller; mason, John Hafford.
Magnolia St., s e cor. Central Ave., three-story frame store and tenement, tin roof; cost, \$5,300; owner, Henry Kopke, 124 Magnolia St.; mason, not selected; carpenter, F. Stenler.
Grand St., n s, between River St. and East River 2 one and two-story frame ferry building, a ting-room and office, gravel roofs; cost, \$17,000; owner, Nassau Ferry Co., New York; architect, Wm. Anderson.
Sixth St., n s, 207' 10" w Sixth Ave., 6 two-story brick dwell., tin roof; cost, each, \$8,000; owner, Thomas Butler, 457 Sixth Ave.; builders, George Buchanan and Thos. Butler.
First St., s s, 320' e Hoyt St., 5 three-story brick tenements, gravel roofs; cost, each, \$2,500; owner, Ellen Pearson, 291 Smith St.; architect and builder, Theo. Pearson.
ALTERATIONS.—*De Kalb Ave.*, s w cor. Central Ave., add one-story extension, also interior alterations; cost, \$6,000; owner, Brooklyn City & Newtown R. R. Co., on premises; architect, Edward E. Kabi; builders, Thomas B. Kutan and John Kueger.
Myrtle Ave., n e cor. Pearl St., add one-story, flat tin roof; also four-story brick extension tin roof; also interior alterations; cost, \$7,500; owner, H. F. Frank, on premises; architect, C. F. Eisenach; builders, O. Nolen and W. Zang.
Even St., No. 119, one-story brick extension, etc.; cost, \$4,000; owner, David Flegenbeur, on premises; architect, Th. Engelhardt; builders, J. Fuchs and J. Hoepfer.

Chicago.

PANORAMA-BUILDING.—The American Panorama Company are erecting a building on the lot, 130' x 174', cor. of Hubbard Court and Wabash Ave. The structure will be of brick and iron. It is expected that the building will be ready for occupancy by the middle of June next.
BUILDING PERMITS.—J. McCann, two-story dwell., 275 Centre Ave.; cost, \$4,000; architect and builder, Jas. McCann.
 Chicago Gas-Light & Coke Company, gas-holder tank, Thirty-first St., cor. Halsted St.; cost, \$50,000.
 C. Halloran, two-story dwell., 268 North Franklin St.; cost, \$5,000; architect, J. Otter; builder, M. Foley.
 B. Cullen, three-story dwell., 36 Depuyster St.; cost, \$6,000; architect, H. Sierks.
 G. Gilbraith, three-story flats, 215 Townsend St.; cost, \$5,000; architect, J. Otter; builder, J. Mountain.
 A. Hoeft, three-story store and flats, 1216-1218 Milwaukee Ave.; cost, \$10,000; architect, H. Kline; builder, J. Fischke.
 F. Dunn, two-story dwell., 127 Auburn St.; cost, \$4,000.
 Greenlee Bros., foundry, 134 and 136 Bunker St.; cost, \$5,000.
 J. A. Roche, 4 two-story dwell., 453-459 Warren Ave.; cost, \$18,000; architect, W. Thomas; builder, C. A. Moses.
 P. W. Gate, one-story shop, 50-58 Clinton St.; cost, \$7,000; architect, F. Baumann.
 Dr. Biddle & M. Evans, 4 two-story dwell., Congress St.; cost, \$20,000; architect, J. W. Ackerman.
 H. Enskamp, two-story dwell., Lewis St.; cost, \$3,000.
 Mrs. J. Schramm, three-story flats, 329 Mohawk St.; cost, \$4,500.
 C. Busby, four-story factory, 222 and 224 Franklin St.; cost, \$9,000.
 W. S. Jackson, two-story flats, Dayton St.; cost, \$3,500.
 S. W. Rawson, 4 one-story stores, 442-448 Blue Island Ave.; cost, \$35,000.
 S. Larson, two-story dwell., 691 Hayne Ave.; cost, \$5,000; architect, C. Boyington; builder, Oleou.
 R. M. Harris, two-story dwell., 336 Warren Ave.; cost, \$3,500.
 C. E. Wyman, three-story warehouse, 503 and 505 Carroll Ave.; cost, \$8,000; architect, Chapman.
 C. Arneson, three-story flats, 100 North Centre Ave.; cost, \$4,500.
 M. Benjamin, two-story dwell., 2627 Wabash Ave.; cost, \$5,000; architect, F. L. Churnley; builder, J. Griffiths.
 G. A. Gumerick, 2 two-story dwell., 2925 and 2927 Wabash Ave.; cost, \$10,000; architect, J. P. Hubert.
 G. W. Newton, 2 two-story dwell., 487 and 489 West Adams St.; cost, \$15,000; architect, F. Baumann; builder, C. G. Muller.
 M. Kehl, two-story dwell., Lincoln St.; cost, \$3,000; architect, Arthur builder, L. Reinko.
 J. Clegg, 2 three-story stores and dwell., 720 and 722 West Eighteenth St.; cost, \$10,000; architect, J. Kellenrich, builder, F. Washington.
 P. Turner, three-story attic dwell., 2355 Wabash Ave.; cost, \$20,000; architect, C. Chapman; builder, G. Griffith.
 J. Shepherd, two-story dwell., 17 Thirty-ninth St.; cost, \$4,000; architect, R. Thacker.
 C. Wilber, three-story store and dwell., 497 Milwaukee Ave.; cost, \$10,000; architect, H. Sierks.
 W. Stagerman, two-story dwell., 487 West Ohio St.; cost, \$3,500.
 J. Reckington, three-story factory, 221 Fulton St.; cost, \$6,000; architect, H. Moore; builders, Tobias & Co.
 J. D. Jennings, five-story addition to building, 2130 Wabash Ave.; cost, \$35,000; architect, C. Chapman; builder, J. Clark.

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A. Muller & M. Schuider, 2 three-story stores and flats, 2823 and 3-25 State St.; cost, \$14,000; architect, J. Doerry; builder, A. Muller.
A. Diesel, 2 three-story stores and dwellings, 2422 and 2424 Wentworth Ave.; cost, \$12,000; architect, J. Frank; builder, A. Mueller.
C. H. McCormick, five-story store, 227 and 229 Lake St.; cost, \$16,000; architect, M. F. Colton; builder, W. Barton.
M. W. Powell & Co., two-story dwell., 202 and 204 Sixteenth St.; cost, \$3,000.
D. Considine, three-story flats, 351 Indiana St.; cost, \$6,000; architect, J. Otter.
J. Clark, three-story store and flats, 1718 and 1720 State St.; cost, \$18,000.
Tammany Beer-Hall, one-story beer-hall, 239-243 State St.; cost, \$18,000.
C. T. Neuffer, three-story store and dwell., 206 West Twelfth St.; cost, \$5,000; architect, A. Bessler.
J. Eggold, two-story store, 575 Larrabee St.; cost, \$4,000.
C. H. McCormick Harvesting Co., shelter-shed; cost, \$3,500.
D. S. Streeter, two-story flats, Van Buren St.; cost, \$7,000; architects, Wheelock & Clay.
J. J. Harrington, three-story store and flats, 284 Illinois St.; cost, \$10,000.
W. S. Moss, two-story dwell., 3658 Michigan Ave.; cost, \$10,000; architect, J. C. June.
J. H. Smith, three-story stores and flats, 372 and 374 Wells St.; cost, \$18,000; architect, L. G. Halberg.
H. Janner, two-story store and dwell., 79 West Thirteenth St.; cost, \$4,000.
F. Becker, two-story dwell., 23 West Thirteenth St.; cost, \$2,500.
G. Lobstein, two-story dwell., 109 Hastings St.; cost, \$2,500.
J. Smith, two-story store and dwell., 47 Hastings St.; cost, \$4,000.
Pioneer Fire-Proof Construction Company, two-story office-building, 1515 Clark St.; cost, \$5,000.
Johnson & Kenble, 3 one-story stores, 482-486 West Randolph St.; cost, \$3,000.
Wm. Holachee, two-story dwell., 83 Lewis St.; cost, \$3,000.
N. C. C. Railway Co., two-story addition to barn, Larrabee St.; cost, \$10,000.
N. C. C. Railway Co., additional story, Larrabee St.; cost, \$17,000.
G. Z. Work, two-story dwell., Dearborn St.; cost, \$10,000.
Oliver & Hill, two-story dwell., Thirty-seventh St.; cost, \$3,500.
J. B. Breese, one-story building; cost, \$70,000.
L. Wolf, four-story stores and factory, 26 North Jefferson St.; cost, \$26,000; architect, Fred. Wolf.
Mrs. A. Baldwin, 2 two-story flats, 296 and 298 Park Ave.; cost, \$7,500.
E. Cross, three-story dwell., 900 Milwaukee Ave.; cost, \$6,000.

Cincinnati.

CHAMBERS.—The West Walnut Hills Catholic Society are about to build a new limestone church on Gilbert Ave., from plans prepared by Mr. A. C. Nash, architect; cost, \$34,000.
The contract for the Mt. Auburn Baptist Church was recently let to L. H. Wilson, for \$21,000. The church is to be of limestone, and will seat about 400; Chas. Crapsey, architect.
CLUB-HOUSE.—The Latonia Jockey Club are to build a new club-house on their driving park, back of Covington, Ky. Mr. A. C. Nash, architect; cost, \$14,000.
CONCERT HALL.—Mr. McLaughlin has in hand a concert hall to be built for the College of Music. The building is an addition to the present series, and has no street front; therefore, the exteriors are plain brick. Audience room, 60' x 85'; stage, 40' x 60'; foyer, 25' x 65'; promenade corridor, 14' x 180'; cost about \$40,000.
FACTORY.—The Krebs Lithographing Co. are to build a new factory on Sycamore St., costing \$25,000.
PAVILION.—The Cincinnati Base Ball Co. are building new pavilions, etc., cor. of Dayton St. and Western Ave.; Chas. Crapsey, architect; cost, \$9,000.
SCHOOL-HOUSE.—For Miss Nourse, a private school-building on Gilbert Ave. Frame, cost, \$7,000; J. W. McLaughlin, architect.
SHEEP-PEN.—For the Union Stock Yards Co., to rebuild the sheep-pens that were destroyed by the recent floods. Frame, three-story, 141' x 490'; cost, \$15,000; J. W. McLaughlin, architect.
STORE AND OFFICE-BUILDING.—Henry Brauns, architect, Baltimore, is preparing drawings for a six-story brick, stone, and terra-cotta building, 421' x 134', to be erected cor. Fifth and Main Sts. (Thom's Block).
STORE.—For Mr. L. B. Harrison, a store on Race St., above Fourth, 50' x 14', five-story high, pressed-brick front; cost, \$35,000; J. W. McLaughlin, architect.
THEATRE.—It is rumored that there is to be a new temple erected for the drama. The structure (if it materializes) is the outgrowth of the dramatic festival which is given every year or two in the Music Hall. The paper states that one man (who will not for the present make himself known) has signified his intention of giving \$100,000 towards the project. A visit to most of the architects of the city develops the fact that there is plenty of work for all.
HOUSES.—Mr. Geo. W. Hupp, architect, has prepared plans for a two-story brick dwell. for Felix Bahman, to be erected on Woodburn Ave., opp. Chase St., 35' x 60'; cost, \$9,000.
For Louis Balaust, Esq., two-story double brick dwell. 45' x 65'; cost, \$10,200; pressed-brick front, Crippen St., near Nassau St.
For the Walnut Hills Club-House, an addition of Parlor Billiard Room, Bowling Alley, etc.; cost, \$4,000.
For W. H. Forwood, brick dwell., Ashland St., Walnut Hills; cost, \$8,000; C. Crapsey, architect.
For Mrs. J. C. Huesey, frame dwell., at Avondale; cost, \$7,000; C. Crapsey, architect.
ALTERATIONS.—For Dr. J. L. Taylor, alterations and additions to a cor. of Seventh and Elm Sts. Turning the present dwelling into stores and flats; cost, \$8,000; C. Crapsey, architect.

Detroit.

BUILDING PERMITS.—Permits granted since our last report are as follows:—
N. H. May, brick dwell., 319 Thirtieth St.; cost, \$3,000.
R. Nelson, frame house, 67 Hancock Ave.; cost, \$5,000.
U. S. Express Co., brick barn, East Woodbridge St.; cost, \$1,500.
G. W. Lloyd, 2 brick stores, Woodward Ave.; cost, \$30,000.
John Waterfall, brick house, 557 Cass Ave.; cost, \$6,000.
A. C. Varney, brick house, 738 Second St.; cost, \$4,500.
Martin Maier, brick factory, Twenty-first St.; cost, \$15,000.
Robert Dunn, brick house, Congress St.; cost, \$1,000.
W. H. McLauslaugh & Son, brick house, Sixteenth St.; cost, \$2,500.
Jos. Wolf, brick store, 699 Michigan Ave.; cost, \$3,000.
Mason & Rice, frame house, Warren Ave.; cost, \$9,000.
Spetzley Bros., church, St. Aubine Ave.; cost, \$62,000.
W. S. Nicholson, frame house, Turnbull Ave.; cost, \$3,500.
Leduc & Martin, 2 frame dwells., Russell St.; cost, \$4,000.
Julius Hess, 2 brick houses, Hancock Ave.; cost, \$12,000.
Board of Education, school-house, German St.; cost, \$12,000.
W. G. Vinton & Co., additions to store, Woodbridge St.; cost, \$3,000.
Jos. Deitz, brick house, 47 Lafayette Ave.; cost, \$1,500.
Leo Schuble, brick house, Beanbine St.; cost, \$3,400.
Julius Hess, stables, West Congress St.; cost, \$10,000.
John Waterfall, brick house, 600 Cass Ave.; cost, \$7,000.

New York.

OFFICE-BUILDING.—The Standard Oil Co., have purchased another lot on Broadway, giving them a frontage on that street of 87'. Mr. E. L. Roberts and Mr. J. M. Farnsworth are still at work on the plans.
STORES.—For the Wetmore estate a brick and stone store, 15' x 25', is to be built on the n. w. cor. of Fourteenth St. and Sixth Ave., from designs of Mr. Chas. D. Marvin.
For the Marquis de San Marzans, a five-story iron front store, 25' x 93', is to be built at No. 66 Grand St., at a cost of about \$25,000; from designs of Mr. W. H. Hume.
BUILDING PERMITS.—Ninety-eighth St., n. s., 200' e Ninth Ave., five-story brick tenement, tin roof; cost, \$16,000; owner, James F. Chamberlin, 1691 Bathgate Ave.; architect, John Sexton; builders, W. C. Hanna & Son, and P. Billenger.
Fifty-ninth St., n. s., cor. Ninth Ave., five-story brick store and tenement, tin roof; cost, \$14,000; owner, Mary J. Odell, 48 West Thirty-third St.; architect, John Sexton; builder, E. H. Miller.
One Hundred and Second St., n. s., 130' e Third Ave., 15 five-story brick tenements, tin roofs; also One Hundred and Third St., s. s., 101' e Second Ave., 6 five-story brick tenements, tin roofs; cost, each, \$16,000; owner, Michael Duffy, 156 East One Hundred and Second St.; architect, A. Spence.
East Fifty-third St., No. 313, five-story brick tenement, tin roof; cost, \$13,000; owner, Alfred Erbe, 55 Second Ave.; architects, Thom & Wilson.
Jay St., No. 20, five-story brick tenement, tin roof; cost, \$9,500; owner, H. H. Kingslake, Greenwich St., s. w. cor. Jay St.; architect, C. F. Ridder, Jr.
West Thirty-fifth St., No. 552, five-story brick tenement, tin roof; cost, \$12,000; owner, Robert Thompson, 552 West Thirty-fifth St.; architect, C. F. Ridder, Jr.
West Forty-ninth St., No. 431, five-story brownstone tenement, tin roof; cost, \$9,000; owner, John Karl, 431 West Forty-ninth St.; architect, C. F. Ridder, Jr.
Eleventh Ave., s. s., 74' 11" n Thirty-seventh St., three-story brick machine-shop, tin roof; cost, \$3,200; owner, Henry Heather, Robert Street Twenty-ninth St.; architect, C. F. Ridder, Jr.
Tenth Ave., No. 819, rear, four-story brick tenement, tin roof; cost, \$6,500; owner, Robert Muh, 745 Ninth Ave.; architect and builder, Judson Lawson.
First Ave., n. w. cor. Seventy-second St., five-story brick store and tenement, tin roof; cost, \$36,000; owner, architect, and builder, Denis J. Dwyer, 312 East Fifty-seventh St.
First Ave., w. s., 48' 20" n Seventy-second St., 2 five-story brick stores and tenements, tin roofs; cost, each, \$18,000; owner, James Fee, Greenville, Jersey City; builder, J. H. Valentine.
Madison Ave., w. s., 25' 50" e Sixty-fifth St., one-story brick and brownstone synagogue; cost, \$85, 000; owner, Bnai Jesurum Synagogue, Moritz Cohn, President, 256 West Twenty-third St.; architects, K. Gustavino, Schwarzmann & Buchman.
Ninth Ave., n. w. cor. Fifty-first St., five-story brick store and tenement, tin roof; cost, \$18,000; owner, Elise Letzelser, 705 Ninth Ave.; architect, J. Kastner.
Thirty-first St., s. s., 62' e Fourth Ave., five-story brick apartment-house, tin roof; cost, \$20,000; owner, James McFarlan, One Hundred and Forty-fourth St. and Southern Boulevard; architect, J. E. Ware.
Eighth Ave., w. s., 25' 10" n Thirtieth St., 2 five-story brick apartment-houses, brick or tin roofs; cost, each, \$18,000; owner, Pearson S. Halstead, 131 East Seventieth St.; architect, J. E. Ware.
W. 4th St., No. 311, six-story brick factory; cost, \$16,000; owners, Archibald and John Culbert, 311 East Forty-second St.; architect, M. L. Ungrich.
First Ave., s. w. cor. Sixty-fifth St., 6 five-story brownstone stores and tenements, tin roofs; total cost, \$108,000; owner, John C. Umberhold, 409 East Fifty-third St.; architect, A. B. Ogden.
Mulberry St., Nos. 5, 7 and 9, six-story and collar

brick factory, tin roof, cost, \$100,000; Wm. Nelson, 210 Mulberry St., cost, \$100,000.
W. 4th St., No. 311, six-story brick factory, cost, \$100,000; Wm. Nelson, 210 Mulberry St., cost, \$100,000.
Broome St., No. 123, five-story brick tenement, tin roof; cost, \$13,000; owner, Wm. Sternkopf, 26 Attorney St.; architect, Julius Beckel.
First Ave., s. s., 25' n One Hundred and Eleventh St., two-story brick gas purifier, slate roof; cost, \$15,000; owner, Harlem Gas Light Co., One Hundred and Tenth St. and First Ave.; architect and contractor, T. F. Rowland; builder, Richard Deever.
One Hundred and Eleventh St., s. s., 27' e First Ave., one-story brick engine-house, slate roof; cost, \$20,000; owner, architect, etc., same as last.
First Ave., s. w. cor. One Hundred and Tenth St., brick enclosure for gas-tank; cost, \$30,000; owner, architect, etc., same as last.
Twenty-ninth St., n. s., 206' w Seventh Ave., five-story brick factory, gravel or tin roof; cost, \$8,000; owner, Mary Smith, 136 West One Hundred and Twenty-second St.; architects and builders, Bartlett & Smith.
East One Hundred and Twenty-third St., No. 206, three-story brick stable, tin roof; cost, \$3,000; owner, Charles Merisch, 2261 Third Ave.; architect and builder, Bart. Walther.
West Twenty-ninth St., Nos. 312 and 314, 2 five-story brick tenements, tin roof; cost, \$15,000; owner, G. M. Barretto, 438 West Fifty-seventh St.; architect, F. Brinkerhoff; builders, John A. O'Connor & Co.
One Hundred and Thirty-eighth St., n. s., 77' e Southern Boulevard, two-story brick dwell., gravel roof; cost, \$5,000; owner, Mary Phelan, One Hundred and Thirty-eighth St. and Southern Boulevard; architect, Chas. Baxton; builder, P. Wheelan.
One Hundred and Thirty-eighth St., n. s., 25' e Willis Ave., three-story brick dwell., tin roof; cost, \$12,000; owner, Anna M. Bradley, One Hundred and Thirty-eighth St.; architect, John Rogers; builders, Smith Bros. and E. Gustavson.
Ridgeway St., s. e. cor. Sheriff St., five-story brick tenement and store, tin roof; cost, \$10,000; owner, John McCullough, 91 East Fourth Ave.; architect, John A. Remor; builder, Thomas Brennan.
East One Hundred and Eleventh St., Nos. 169 to 173, 5 four-story brick flats, tin roofs; cost, total, \$80,000; owner, Joseph H. Bearns, 253 Washington St.; architect, Julius Kastner.
East Seventy-ninth St., No. 52, four-story brownstone front dwell., tin roof; cost, \$22,500; owner, Jacob and Samuel Cohen, 360 East Fifth St.; architects, Thayer A. Robinson; builders, List & Lennon, and Jas. J. Garland.
Eighty-third St., s. s., 175' e Ninth Ave., 2 four-story brownstone front dwells., tin roofs; cost, each, \$25,000; owner and builder, Richard Deever, 212 East Thirtieth St.; architects, D. and J. Jardine.
Boston Ave., s. w. cor. Spring Pl., four-story frame dwell., slate and tin roofs; cost, \$10,000; owner, Ernest Hall, on premises; architect, Theo. E. Thomson.
East Twenty-fourth St., No. 234, five-story brick tenement, tin roof; cost, \$15,000; owner, Edward Mulvany, 170 East Seventieth St.; architect, John Sexton.
Seventy-fourth St., s. s., 85' w Third Ave., two-story brick dwell. and store, tin roof; cost, \$3,500; owner, Ralph Irving, 1274 Third Ave.; architect, John Brandt.
First Ave., n. w. cor. One Hundred and Third St., 4 five-story brick tenement and stores, tin roofs; cost, each, \$12,000; owner, John Simon, 136 Christie St.; architect, Julius Beckel.
ALTERATIONS.—Sixty-seventh St., Nos. 30 and 32, and 219 and 221 Ninth St., five-story brick extension, tin roof, etc.; cost, from \$5,000 to \$7,000; owner, James L. Plympton, 30 Stuyvesant St.; builder, John Morton.
Broadway, No. 149, stairs shifted, and new store front, iron-work; cost, \$5,000; agent for trustees, F. Fish, 149 Broadway.
West Eleventh St., No. 141, add one story, tin roof; also, four-story brick extension, tin roof; cost, \$9,000; owner, Chas. J. Fagan, 210 Waverly Pl.; architect and builder, S. McMillan.
Cedar St., No. 60, sub-divide each floor; cost, \$9,000; lessees, Satterlee, Hostwick & Martin; architect, E. A. Sargent; builders, R. Moore, and Robinson & McDowell.
Philadelphia.
BUILDING PERMITS.—Reese St., s. s., n Cambria St. 2, two-story dwells., 4' x 28'; Albert Heinke, owner.
Broad St., cor. Diamond St., 8 three-story dwells., four 19' x 71', four 16' x 58'; Jno. Sharp, owner.
Boylston Ave., s. e. of Water St., two-story factory, 44' x 145'; J. D. Caldwell.
Houses.—Thirty-fifth St., cor. Powelton Ave., Hon. Louis Emery proposes to have erected a house from plans by Lindley Johnson, architect.
Venango St., s. s., bet. Richmond and Lambert Sts., 5 two-story dwells., 13' x 40'; Anos W. Liun, contractor.
Clearfield St., n. s., bet. Emerald St., and Frankford Road, two-story dwell., 17' x 48'; Charles E. Reese, owner.
Twenty-first St., s. s., a Tloga St., 5 three-story dwells., 16' x 55'; W. Garvin, contractor.
Lancaster Ave., cor. Thirty-second St., exhibition building, 200' x 282'; J. R. Garber, contractor.
Duval, Oakland and Adam Sts., 27 two-story dwells., 16' x 30'; W. H. Bruner, contractor.
Market St., n. s., e. of Forty-second St., 2 two-story dwells., 14' x 48'; Michael Behaven, owner.
Fifth St., cor. South St., store and dwell., 14' x 60'; Mariner & Buckingham, contractors.
J. Allen Lane, on Philadelphia, Germantown & Chesnut Hill R. R., one-story station, C. D. Supplee, contractor.
Twenty-third St., bet. Columbia Ave. and Berks

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off the draught through an elevator-shaft by "horizontal iron doors at each floor," acting automatically, device for this purpose also are in use, one of these, by the way, if not two, having been devised by those same architects, who, as we are told, "do not know what a fire-proof structure is." Passing from the consideration of the protection of elevator-shafts to the enclosing of iron construction with fire-clay, which, as the *Mail and Express* says, "is essential to the security of many buildings now supposed to be fire-proof," we must confess that we are surprised to find that the editor of a daily paper of such high reputation should not know that nearly the whole system of protecting iron structural work with terra-cotta or concrete, as now used in this country, is the invention of a well-known and highly-trained architect, who, endeavoring, as all other good architects do, to make his theoretical and practical knowledge available in solving certain serious problems of fire-proof construction with which he had to deal, produced, one after the other, those admirable methods which are known in the profession by his name, and which have placed the modern fire-proof buildings of this country far in advance of those yet constructed in any other part of the world. We could cite other examples of improvement in the art of fire-resisting construction which have been introduced by architects, but we hope that the answer just made to the two points on which the *Mail and Express* bases its imputations upon the profession will be sufficient to show that the architects have not waited for the burning of the Cincinnati Court-House before beginning "to study upon the problem how to erect structures which will be thoroughly fire-proof."

A BUILDERS' and Traders' Exchange has been established in Chicago, with rooms in the National Life Building, 159 La Salle Street. The Exchange has already more than three hundred members, including representatives of all the building trades, as well as manufacturers of brick, lime, cement, glass, terra-cotta, paints and so on, and dealers in all sorts of building appliances. The directors of the Exchange have endeavored to restrict membership to the most responsible and intelligent men in the various professions represented, and a code of rules has been adopted, under which any deviation from proper business practices on the part of members will be promptly punished. An innovation has been introduced in the usual management of mechanics' exchanges, by choosing rooms for the business of the association in a large office-building, where individual contractors or dealers in materials can find accommodation near to the centre of their business; and this feature of the arrangement will undoubtedly add to the convenience of all persons concerned. No one who has not practised building or architecture within reach of a mechanics' exchange can understand its value in saving time and steps. In the towns where such exchanges exist, the necessary communication between the architect and the contractors engaged upon his work, or between the various contractors, is effected during the exchange hour, when all the contractors belonging to the association are, either in person or by deputy, present at the rooms; and business can be more forwarded in this way in a few minutes than in as many days of the ordinary letter-writing. If well managed, a builders' exchange undoubtedly assists in raising or keeping up the quality of workmanship among the local mechanics, as where the best builders are in daily communication, the discussion of current work sure to be carried on serves both as a guide and incentive to those who wish to excel in their profession; while those who would be capable of doing bad work, if they were sure of not being found out, fear, with reason, the criticisms of the exchange assemblages; and, considered simply as a device for promoting the interests of its own members, such an exchange offers considerable advantages in the publicity which it generally gives to the competing offers for contracts in the market, as well as in the opportunity which it affords for mutual support in cases of difficulties which an isolated individual could hardly meet successfully.

A RECENT number of the *Builder* contains a description of a typical Indian house, similar to those which still form the ordinary habitation of all well-to-do persons in the most polished and aristocratic country in the world. According to this account, which is accompanied with a plan, drawn by a Hindoo draughtsman, the entrance to the ordinary Indian dwelling is preceded by a narrow portico, the columns of which carry the front of the upper stories. The portico serves in the

daytime as a lounging place for the men of the household, and at night is left either to the lower servants, or to the beggars, who are generally allowed to sleep there. The main entrance opens in the middle of the portico, giving access to a spacious hall, and through this to an open court beyond, occupying the whole width of the house. The hall, if the owner is a mechanic or artisan, serves as his workshop; or if not, is used as a servants' dining-room and store-room, except on occasion of weddings or special festivities, when it is cleared for the reception of guests. On each side of the entrance-hall is a small room. That on the left hand is occupied either by the guard, or, in these peaceful times, by the oldest male member of the family, to whose infirmities a bedroom on the ground-floor is generally grateful, while his age and discretion make him of service in keeping watch over the entrance-hall and the stairs, which ascend from the court, close to the inner door of his apartment. The room on the right hand of the entrance-hall serves as the lavatory, and is furnished with washing utensils and a latrine. Both these rooms have an inner door on the court, which forms the vestibule to all the rest of the house.

THIS court is in arrangement almost exactly similar to the Roman impluvium, being open to the sky, and having a sunken basin in the middle, surrounded by a colonnade. Under the basin a cistern is sometimes constructed, in which the water which falls into the court is collected; but in most instances a well is sunk in the basin, which is then simply drained to the outside of the house, and serves as a bathing place. The colonnade which surrounds the basin is, like the Roman peristylum, the family meeting place, where religious ceremonies take place, and much of the household work is done. Behind the courtyard is a large room for the domestic occupations which cannot conveniently be pursued in the peristyle; and a small kitchen and two store-rooms open out of this. The remaining space is devoted to a small square apartment, opening from the peristyle, where the images of the gods are placed. The rear portion of the second story, approached by a separate staircase from the court, is occupied by the apartments of the unmarried ladies of the family. A balcony opens on the court in front of these, stopping at each end against the wall of a bedroom. These bedrooms are built over the side passages of the peristyle, and through them is the only direct communication between the women's portion of the second story and the front part, which contains the divan-khana, or main reception-room, occupying the whole width of the house, and furnished with a raised dais around three sides. Near the middle of the reception-room is a fountain, supplied by a cistern placed in the story above. This upper story is divided into small sleeping-rooms, and a sort of garret above, in the air-space under the roof, gives room for storage. The stairs are in all cases very differently managed from those of European houses, being usually mere step-ladders, set in certain definite positions, but made so light that they can be drawn up entirely out of reach in times of danger.

A RECENT decree has taken away the privilege which until now has been conceded to the official ateliers of the Ecole des Beaux-Arts at Paris, of receiving pupils in preparation for entering the school; and henceforth no one will be admitted to the official ateliers who has not been regularly admitted to the school. This change will be a matter of some importance to Americans, who are very apt to need six months or a year's study after arriving in Paris, before they are qualified to pass the entrance examinations. This regulation does not seem to apply to the ateliers which are outside of the school, although licensed to receive its students as pupils; but an effort has been made to abolish all instruction in outside ateliers, and it seems very likely that before many years the instruction given to matriculated students will be kept entirely distinct from that appropriated to candidates for admission. There would probably be an advantage in this, since young students, although they profit in some respects, lose in others, by association with men of superior skill; and the latter, who have little to gain by working side by side with beginners, suffer from being deprived of the attention of their masters which the beginners are so importunate in demanding; and if the change should be made, preparatory ateliers would soon be opened to receive the aspirants who might be shut out of the regular ateliers. One of these preparatory ateliers has, in fact, already been established, and may, perhaps, become, later, familiar to many of our compatriots.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

- 297,117. HASP-LOCK. — David H. Donaldson, Buffalo, N. Y.
 297,118. SHUTTER-FASTENER. — Wm. E. Doolittle and D. Edward Doolittle, New Britain, Conn.
 297,126. PORTABLE FIRE-ESCAPE. — Francis Ingersoll Freeman, Warren, O.
 297,139. LIQUID PAINT. — George T. Lewis, Philadelphia, Pa.
 297,145. BLIND-STOP. — Thomas Massey, Pawtucket, R. I.
 297,151. LOCK. — Frank W. Mix, New Britain, Conn.
 297,161. SURVEYOR'S LEVEL. — Theodore F. Randolph, Cincinnati, O.
 297,171. RATCHET-DRILL. — Caspar Sebumacher, Kalk, Germany.
 297,187. SASH-HOLDER. — William O. Smith, Norwalk, O.
 297,189. MEANS OF VENTILATION. — Marshall B. Stafford, New York, N. Y.
 297,204. BLIND-SLAT LOCK AND OPERATOR. — Isaack Van Kersen, Kalamazoo, Mich.
 297,209. WRENCH. — Thos. Foster White, Salem, Mass.
 297,210. RATCHET-DRILL. — Pardon A. Whitney, Cleveland, O.
 297,218. BRICK-MACHINE. — William Andrus, Keokuk, Iowa.
 297,227. LEVELLING AND PLUMBING INSTRUMENT. — Oliver H. P. Brown, Clarksville, Ark.
 297,234. SASH-FASTENER. — Francis M. Case, Denver, Col.
 297,235. DISINFECTING SEWERS. — Edward Z. Collins, Camden, N. J., and Charles F. Pike, Philadelphia, Pa.
 297,239. LOCK FOR SLIDING-DOORS. — James Henry Dougherty, Whitlor, Ala.
 297,244. CARPENTER'S VISE. — John F. Miller, Pittsburg, Pa.
 297,249. COUPLING FOR LIGHTNING-RODS. — Theodore H. Paine, Greenacres, Ind.
 297,254. APPARATUS FOR VENTILATING WATER-CLOSETS, URINALS, DRAINS, SEWERS AND THE LIKE. — Thos. Rowan, London, Eng.
 297,255. BUILDING-BLOCK. — Walter Stranders, New York, N. Y.
 297,259. FAN-BLOWER. — James E. Studley, Oshkosh, Wis.
 297,261. BUGLE-ALARM. — Henry E. Taber, Watkins, N. Y.
 297,261. WATER-CLOSET CONNECTION. — Henry C. Welden, Boston, Mass.
 297,263. STEAM-RADIATOR. — Corydon Wheat, Geneva, N. Y.
 297,264. SKELETON TOWER. — John S. Adams, Elgin, Ill.
 297,265. ELECTRIC-LIGHT TOWER. — John S. Adams, Elgin, Ill.
 297,266. VISE-ATTACHMENT. — Charles H. Eddy, Auburn, N. Y.
 297,271. ROOFING-COMPOUND. — Jas. T. Fretwell, Atlanta, Ga.
 297,272. ROTARY-BLOWER. — Ralph E. Harris, Macon, Ill.
 297,275. LUMBER-TRIMMING MACHINE. — Edward Hoyle, East Saginaw, Mich.
 297,277. LATHE-KNOB ATTACHMENT. — Geo. Lewis Howland, Topsham, Me.
 297,281. SINK OR ANALOGOUS ARTICLE. — Henry L. Jacobs, Columbus, O.
 297,289. EXCAVATING-ELEVATOR. — Geo. H. Kammerer, Columbus, O.
 297,293. BRICK-KILN. — James S. Lester, Atlanta, Ga.
 297,292. AUTOMATIC FIRE-EXTINGUISHER. — Wm. Starrett, Cleveland, O.
 297,293. HEATING AND VENTILATING APPARATUS. — Patrick W. Nolan, New York, N. Y.
 297,298. FIRE-PROOF BUILDING. — Gustavus W. Ruler, New York, N. Y.
 297,299. VALVE FOR WATER-CLOSETS, ETC. — William Scott, Malden, Mass.
 297,300. DOOR-SECURER. — Wm. Starrett, North Manchester, Ind.
 297,305. LUMBER-RACK. — Joseph Amis Aycock, Whiteburg, Ga.
 297,311. CONSTRUCTING AND FASTENING TILES. — Walter Booth, Farrytown, N. Y.
 297,312. CALIBERS. — Charley Bovensiepe, Detroit, Mich.
 297,313-500. FASTENER FOR MEETING-RAILS OF SAWMILLS. — Louis J. Church, Washington, D. C.
 297,315. PNEUMATIC TUBE. — Wilbur G. Davis, Syracuse, N. Y.
 297,320. METALLIC SHINGLE. — John Mott, New York, N. Y.
 297,325. FIRE-GRATE. — Georges Alexis-Godillot, Paris, France.

SUMMARY OF THE WEEK.

Baltimore.

ADDITION. — Francis White and others are about to erect an addition of a mansard story to the five-story City Hotel, at Baltimore and Liberty Sts., to cost

about \$3,500, from designs by George Archer, architect.

BUILDING PERMITS. — Since our last report forty-one permits have been granted, the more important of which are the following: —

St. Charles Catholic Church, brick church, w s Gilmor St., s of Baker St.
 Chas. P. Logue, three-story brick stable and dwell., rear w s Pearl St., between Mulberry and Saratoga Sts.

Alonzo Radcliffe, three-story brick building, n w cor. O'Donnell and Canton Sts.

S. D. Price, 4 two-story brick buildings, w s Peabody St., s of John St.

Brigham & Hopkins, six-story brick building, s e cor. German and Paca Sts.

Jos. M. Johnson, three-story brick building, n s Baltimore St., e of Schroeder St.

Hy. Smith, three-story brick building, w s Regester St., between Lombard and Pratt Sts.

Chas. Bonaparte, 6 three-story brick buildings, s s Baltimore St., commencing s e cor. Patterson Park Ave., and 3 three-story brick buildings, w s Patterson Park Ave., rear above.

Levi Straus, three-story brick buildings (square), and two-story brick stable, s e cor. Eutaw Pl. and Mosher St.

M. A. Caldwell, 5 two-story brick buildings, e s Wilcox St., s of Chase St.

Louis G. Smith, 3 two-story brick buildings, n s Heath St., between Hanover St. and Goodman Alley.

E. J. McMullen, 8 three-story brick buildings, s s Dolphin St., between Myrtle Ave. and Shield Alley.

John G. Foster & Co., 4 two-story brick buildings, e s Chesapeake St., between O'Donnell and Elliott Sts.

L. H. Robinson, three-story brick building, w s Fulton Ave., n of Mosher St.

There is no change in the Labor Quotations.

Boston.

BUILDING PERMITS. — *Brick.* — Athens St., No. 138, Ward 13, for Timothy Hourihan, dwell., 25' x 35', three-story flat.

West Chester Park, Ward 11, for N. H. Chadwick and O. L. Stillings, 9 dwells., 23' x 45', two-story mansard; all, 14' x 20'; O. L. Stillings, builder.

Adams Pl., No. 28, Ward 19, for Mrs. Prudence E. Libby, tenement, 40' x 60', three-story flat; Simon Gable, builder.

Highland St., Nos. 84-88, Ward 21, for Daniel Stamford Heirs, 3 dwells., 30' x 35', two-story mansard; W. H. Sayward, builder.

Bismarck St., near Boylston St., Ward 23, for F. W. Dahl, currying-shop, 40' x 125', three-story flat; ell, 33' x 88'; Dady & Flint, builders.

Newbury St., No. 235, Ward 11, for W. C. East Estate, dwell., 25' x 58', four-story mansard; John R. Briggs, builder.

West Cottage St., Nos. 62-68, Ward 20, for Silas Potter, 4 dwells., 21' 3" x 36' 6", three-story flat; Sampson, Clarke & Co., builders.

Wood. — *Norfolk St.*, rear, near Withington St., Ward 24, for Mrs. Caroline Jackson, storage, 14' x 50' and 53', one-story pitch; John H. Burt & Co., builders.

Knobs Ct., near Main St., Ward 4, for Patrick Monahan, 2 dwells., 11' x 18' and 22' x 32', four-story flat; Wm. Carter, builder.

Blue Hill Ave., No. 18, Ward 20, for J. W. Laming, store, 18' x 37', one-story flat; Laming & Drisko, builders.

Hickborn St., near Herriek St., Ward 25, for John H. Welch, 6 dwells., 12' 9" x 14' 3" and 18' x 27', two-story hip; J. W. Berry, builder.

Unnamed St., near Wilton St., Ward 25, for H. W. Longfellow, dwell. and skating rink, 21' x 32' and 32' x 45', two-story mansard; H. M. Perry, builder.

North Beacon St., near Everett St., Ward 25, for A. F. Sinclair and L. S. Marston, 4 dwells., 14' 9" and 28' x 52', two-story pitch; Stephen Ellis, builder.

Chesmore St., rear, near Mt. Hope Station, Ward 23, for John Richardson, stable, 24' x 45', one-story pitch.

Union St., rear, near Shepard St., Ward 25, for John Kelley, dwell., 23' x 33', two-story pitch; Michael Mahon, builder.

East Third St., No. 531, Ward 11, for John Dagan, dwell. and store, 27' 6" x 15' 4", three-story flat; Wm. T. Eaton, builder.

East Third St., No. 533, for John Dagan, dwell., 13' x 21' and 42' 8", three-story flat; Wm. T. Eaton, builder.

Washington St., near Keyes St., Ward 23, for John Dowling, dwell., 15' x 20' and 21' and 23' 6" x 32', two-story pitch; McDonald & Tobin, builders.

Canterbury St., near Ashland St., Ward 23, for Thomas McManus, dwell., 22' x 30', two-story pitch; D. McDonald, builder.

Trickerman St., e s, Ward 15, for H. Gove & Co., stable, 20' and 24' x 80', two-story flat; C. E. Snow, builder.

A St., near Boylston St., Ward 23, for F. W. Listman, dwell., 12' x 22' and 22' x 32' and 38', two-story pitch; Jacob Luippold, builder.

Myrtle St., No. 23, rear, Ward 23, for Edward G. Norcross, dwell., 20' and 25' x 28', two-story pitch; Melvin D. Ayers, builder.

Unnamed St., near Chester St., Ward 23, for John Egan, dwell., 23' x 31' two-story pitch; Melvin D. Ayers, builder.

Rockland St., cor. Unnamed St., Ward 21, for Thos. Clusby, 2 dwells., 27' 10" x 36' 6", three-story flat; John D. Wester, builder.

Sumner St., No. 293, Ward 2, for Thos. Boardman, dwell. and store, 19' x 55', two-story mansard.

School-street Pl., rear of 41 School St., Ward 23, for Thos. Harris, stable, 18' x 20', one-story pitch; Harris Bros., builders.

Longwood Ave., No. 78, rear, Ward 22, for Daniel Vetter, 2 dwells., 20' x 28', three-story flat; Jacob Luippold, builder.

Allston St., near Allston Pl., Ward 25, dwell., 11' x 15' and 22' x 20', two-story pitch; R. E. Abbott, owner; W. B. & M. Farrow, builders.

Brooklyn.

BUILDING PERMITS. — *Delmonico Pl.*, n e cor. Ellery

St., three-story frame store and tenement, tin roof; cost, \$4,600; owner, Wm. Kolb, 140 Hopkins St.; architect, F. Holmberg; builder, J. Rueger.

Delmonico Pl., e s, 30' 6" n Ellery St., three-story frame tenement, tin roof; cost, \$4,000; owner, architect and builder, same as last.

Fourth St., w s, about 75' s South Fifth St., four-story brick tenement and store, tin roof; cost, \$12,000; builders, W. & T. Lamb.

Penn St., s s, about 150' e Bedford Ave., two-story brick dwell., tin roof; cost, \$5,400; owner, Wm. E. Andarise, 85 Albany Ave.; architect, E. F. Gaylor; builders, M. Smith and R. & B. Ferguson.

Bergen St., n s, 30' e Albany Ave., 2 one-story frame buildings for car-house and stable, gravel roof; cost, \$15,000; owner, South Brooklyn & Central R. R. Co.; builders, M. J. Reynolds and P. Brady.

Union St., s s, 125' w Clinton St., 3 three-story brown-stone dwells., tin roofs; cost, each, \$6,500; owner, Julius Wadsworth, New York; architect and carpenter, Geo. Lowber; mason, W. L. Kountree.

Richards St., n e cor. Bowne St., two-story brick shop, slate and tin roof, brick and iron cornice; cost, about \$8,000; owner, J. H. Williams, 293 Henry St.; architects, Norris & Son.

Kent Ave., n w cor. Park Ave., 2 four-story brick stores and tenements, tin roofs, wooden cornices; cost, \$12,000; owner, A. Phillips, Jr.; architect and carpenter, J. T. Hanton; mason, J. Collins.

Scholes St., s s, 78' w Lorimer St., four-story frame store and dwell., tin roof; cost, \$6,400; owner, Anton Muller, 30 St. Mark's Pl.; architect, J. Platte; builder, E. Herte.

Court St., s w cor. Jaquer St., 3 four and three-story brick stores and dwells., tin roofs; cost, corner, \$8,000, and others, each \$5,500; owner and builder, Thomas Keogh, 1494 Nelson St.

Saratoga Ave., s w cor. Herkimer St., two-story brick dwell., tin roof; cost, \$3,500; owner, Pauline Hartung, 148 Saratoga Ave.; architect, A. R. Hartung; mason, C. Bauer.

Marcy Ave., No. 241, e s, 75' s Wallabout St., three-story brick dwell., tin roof; owners, Moller & Schumann, Marcy Ave., cor. Gerry St.; architect, Th. Engelhardt; builders, S. Burrows and Jos. Frisse.

Penn St., n s, 104' e Lee Ave., two-story and three-story brown stone dwells., tin roofs; cost, each, \$6,000; owner, Daniel Seully, 220 Penn St.; architect and builder, M. Browne.

Leonard St., n e cor. Vann Cott Ave., four-story frame store and tenement, tin roof; cost, \$8,000; owner, Fred. Isermann, New York; architect, — Webber; builders, Jno. Haifer and Randall & Miller.

Withers St., n e cor. Lorimer St., three-story frame store and tenement; cost, \$5,000; owner, Geo. Thode, 334 Lorimer St.; architect, A. Herbert; builder, J. Schoch.

ALTERATIONS. — *South Eighth St.*, s s, 25' w Second St., three-story brick extension, tin roof, etc.; cost, \$7,400; owner, Loftus Wood, 1145 Broadway; architect, E. F. Gaylor; builders, M. Smith and S. L. Hough.

Second St., e s, 51' n North Tenth St., add one-story, also three-story brick extension, etc., gravel roof; cost, \$9,000; owner, The Tuttle & Bailey Manufacturing Co., 83 Beekman St., New York; architect, A. Namar.

Pacific St., No. 1134, two-story brick extension on east of building, and two-story brick extension on rear, interior alterations; cost, \$8,000; owner, W. L. Butler, on premises; architects, Rossiter & Wright; builders, T. A. Hamblin and J. C. Sawkins.

Chicago.

OFFICE-BUILDING. — Burnham & Root are architects of the twelve-story office-building to be erected for P. C. & S. L. Brooks, of Boston.

SEMINARY. — Plans are completed for the Western Theological Seminary, to be built by the Episcopal Church, on Washington Boulevard, near California Ave. This structure and dormitory attached will cost \$75,000, and will occupy a lot 201' on the Boulevard by 134' deep. Treat & Foltz, who have on hand at present over \$400,000 worth of work, drew the plans.

BUILDING PERMITS. — S. Weise, 2 two-story dwells., 3124 and 3126 Vernon Ave.; cost, \$8,500; architect, C. C. Mueller.

C. J. Hess, 2 two-story buildings, 2973 and 2975 Prairie Ave.; cost, \$12,000; architect, L. B. Dixon; builder, J. Phillips.

J. M. Kralove, two-story dwell.; cost, \$3,500.
 J. Reifort, two-story dwell., 3839 Dearborn St.; cost, \$3,000; builder, E. Hamlin.

Geo. Ellis, three-story store and dwell., 430 Division St.; cost, \$7,000; architect, Furman; builder, L. Koble.

C. Groshauer, two-story dwell., 611 Twenty-first St.; cost, \$3,000; architect, Beasley.

H. Gerber, two-story dwell., 3633 Halsted St.; cost, \$3,500; architect, Kuehl.

P. C. & S. L. Brooks, twelve-story office-building, LaSalle St., cor. Jackson St.; cost, \$250,000; architects, Burnham & Root.

M. D. Korfoot, 2 one-and-one-half-story cottages, Rice St., cor. Leavitt St.; cost, \$3,000.

H. Morgen, 2 three-story dwells., 3504 and 3506 State St.; cost, \$10,000; architect, Geo. Edbrooke.

Three-story flats, 76 South Sangamon St.; cost, \$6,500; architects, Furst & Rudolph.

H. Lehmann, three-story flats, 233 West Ohio St.; cost, \$8,000; architect, E. Stende.

Jacob Alt, 2 three-story flats, 461 and 466 West Congress St.; cost, \$11,000; architect, R. Beiler.

Mrs. A. Boland, three-story flats, 140 Eugenie St.; cost, \$1,000; architect, J. Otter.

G. Hesterman, two-story flats, 69 Huron St.; cost, \$2,500; architect, C. C. Hanson.

M. Pasanuti, 4 two-story flats, 1162-1166 Harrison St.; cost, \$12,000; architect, W. A. Furber.

J. S. Kirk & Co., one-story boiler-house; cost, \$5,000; builder, Nicholson.

V. Heller, two-story dwell., 311 and 316 Jefferson St.; cost, \$2,500.

E. Hink, three-story dwell., 503 North Clark St.; cost, \$10,000; architects, Froman & Jepson.

C. Burke, two-story store and dwell., South Park Ave.; cost, \$4,000.

F. A. Kennedy Co., six-sty bakery, 44-50 South Des Moines St.; cost, \$50,000; architects, Adler & Sullivan.
 Ulrik, two-sty dwells., 2220 and 2228 Dearborn St.; cost, \$10,000; architect, William Strippelman; builders, Geo. Lehman & Son.
 Norton Bros., two-sty barn, 17 Depuyser St.; cost, \$5,000; builder, Jas. McGraw.
 H. J. Christoph, two-sty dwells., 769 and 771 Larrabee St.; cost, \$10,000; architect, W. A. Rend.
 M. Mitchell, three-sty and attic store and dwell., 220 West Eighteenth St.; cost, \$6,000; architect, P. Bessler.
 J. Lala, two-sty dwell., 251 West Twentieth St.; cost, \$3,000; architect, J. Witner.
 Vopaska & Kubrin, two-sty dwell., 202 Taylor St.; cost, \$3,500; architect, J. Witner.
 H. Snyder, three-sty dwell., 2522 Michigan St.; cost, \$25,000; architect, J. C. Cochran.
 M. B. Clancy, two-sty dwell., 3142 Vernon Ave.; cost, \$5,000; architect, C. M. Palmer.
 W. B. Snow, two-sty dwell., 3140 Calumet Ave.; cost, \$5,800; architect, C. M. Palmer.
 Dearborn Foundry Co., three-sty foundry; cost, \$5,200; architect, L. Smith.
 J. P. McAssie, two-sty dwell., 478 Taylor St.; cost, \$3,000.
 Western Theological Seminary, three-sty seminary and dormitory, Washington Boulevard; cost, \$75,000; Treat & Foltz, architects.
 F. H. Heidrich, three-sty store and dwell., 127 Chicago Ave.; cost, \$5,500; architect, Otto.
 H. Feldman, two-sty dwells., 791 Ogden Ave.; cost, \$8,000; architect, F. Kelenich; builder, A. Kaiser.
 Dr. Matthei, 6 three-sty dwells., 307 to 317 Van Buren St.; cost, \$30,000; architects, Treat & Foltz; builder, A. Kaiser.
 Chas. Keefe, three-sty dwell., 540 Division St.; cost, \$7,000; Theo. Karla.
 P. Schoenhofen Brewing Co., two-sty barn, ice-house, and rear addition; cost, \$5,000; architect, Otto Matz.
 J. S. Norton, 2 three-sty dwells., 613 Division St.; cost, \$15,000; architects, Treat & Foltz.
 Mrs. E. Montgomery, two-sty dwell., 2825 South Park Ave.; cost, \$5,000.

Cincinnati,

BUILDING PERMITS.—Dr. Schmuck, four-sty brick dwell., Main St.; cost, \$7,000; Geo. W. Rapp, architect.
 Mrs. E. Roberts, two-sty brick dwell., Spring St.; cost, \$3,500.
 J. G. Grote, four-sty brick store, Court St.; cost, \$7,500.
 Geo. Cornelius, three-sty brick building, 61 Fourteenth St.; cost, \$6,500.
 Krebs Lithographing Co., five-sty brick building, Sycamore St., near Sixth St.; cost, \$20,000; Jas. W. McLaughlin, architect.
 C. Eichenbach, two-sty brick dwell., Tremont St., near Oak St.; cost, \$3,000.
 Mrs. A. Best, three-sty brick dwell., McKicken Ave.; cost, \$4,000.
 M. L. Elston, two-sty frame dwell., Chapel St., e of Walnut Hills; cost, \$4,500.
 B. Gerbel, two-sty frame dwell., Ohio Ave., near Parker St.; cost, \$3,000.
 Wm. Packer, two-sty brick building, 130 East Second St.; cost, \$2,500.
 F. L. Lumke, three-sty brick building; cost, \$6,000.
 Jos. Seiber, two-sty frame dwell., Hackberry St., near Madisonville Pike; cost, \$3,500.
 P. D. Roe, two-sty brick dwell., Dosey St., near Eymore St.; cost, \$4,000.
 Mrs. Mary Walter, two-sty frame dwell., Church Ave.; cost, \$3,000.
 F. M. Zumbstein, three-sty brick stable, Lodge Alley, cor. Sixth St.; cost, \$4,000.
 Mt. Auburn Baptist Church, Auburn Ave., near Church St.; cost, \$21,000; Chas. Crapsey, architect.
 F. Burdeck, four-sty brick building, cor. Twelfth and Bremen Sts.; cost, \$7,000.
 A. Lucas, two-sty brick dwell., Addison St., near Spring Grove Ave.; cost, \$3,000.
 H. Mantel, three-sty brick dwell., Woodward St., near Franklin St.; cost, \$5,000.
 H. Berens, three-sty brick building, Plum St., near Front St.; cost, \$3,600.
 M. Clements, two-sty brick building, Hathaway St., near Baymiller St.; cost, \$5,000.
 L. B. Harrison, five-sty brick store, Race St., between Fourth and Fifth Sts.; cost, \$30,000; Jas. W. McLaughlin, architect.
 J. D. Rumeir, three-sty brick building, Clifton Ave.; cost, \$6,000.
 J. Schillinger, two-sty brick building, Vine St., near Boone St.; cost, \$6,000.
 Mrs. Labman, two-sty brick building, Linn St.; cost, \$6,500.
 A. Lika, three-sty brick dwell., 202 Western Ave.; cost, \$5,000.
 Mrs. R. Bohman, three-sty brick building, Mulberry St.; cost, \$5,000.
 C. Simons, 3 one-sty frame buildings, 17, 19 and 21 Central Ave.; cost, \$4,000.
 J. Boen, two-sty brick building, Calhoun St.; cost, \$6,000.
 J. B. Lucas, two-sty brick building, Wheeler St.; cost, \$4,000.
 W. Harrison, two-sty brick dwell., s e cor. Highland Ave. and Oak St.; cost, \$7,000.
 P. Lane, three-sty brick building, Warner St.; cost, \$4,100.
 T. Soelter, three-sty brick dwell., Euclid Ave.; cost, \$5,000.
 John Kitter, three-sty brick building, Lick Run Pike; cost, \$3,500.
 Ed. Stevens, two-sty brick dwell., Crown St., opposite Home St.; cost, \$8,500.
 Dr. Rendigs, four-sty brick building, Woodward St., cor. Pendleton St.; cost, \$12,000.
 Thirty-nine permits for repairs; cost, \$35,100.
 Seventy-five permits; cost, \$273,800.
 Total permits to date, 244.
 Total cost to date, \$923,350.

New York.

CHURCH.—On the n s o of One Hundred and Twelfth St., near Second Ave., a brick chapel, 25' x 90', is to be built for the Church of the Holy Trinity.
CITY PRISON.—It is proposed to enlarge the City Prison on the Leonard Street side; \$200,000 has been appropriated for the purpose. Messrs. N. Le Bruu & Son have the plans on the boards.
STORES.—At No. 6 East Nineteenth St., a five-sty store-building, 25' x 97', of Philadelphia brick with Ohio-stone finish, is to be built for Mr. M. Gurela; at a cost of \$20,000, from designs of Mr. Robert Moore.
 At No. 2191 Third Ave., a four-sty brick store and warehouse, 31' x 120', is to be built for Mr. John Lynch, at a cost of \$20,000, from designs of M. H. Walther.
TENEMENTS.—For Mr. Henry Bornkamp, Messrs. McCloy & Davis have drawn plans for 14 five-sty brick tenements, 25' x 70' each, to be built on Ninth Ave., near Ninety-fifth St., at a cost of \$210,000.
BUILDING PERMITS.—One Hundred and Twenty-sixth St., s s, 250' e Eighth Ave., 2 five-sty brown-stone tenements, tin roofs; cost, each, \$20,000; owner, Frederick Adhous, 24 East One Hundred and Twenty-eighth St.; architect, F. T. Camp.
 Forty-fifth St., n s, 150' w Eleventh Ave., two-sty brick stable, gravel roof; cost, \$7,500; owner, Standard Oil Company, 44 Broadway; architect, R. G. Egan.
 Twenty-first St., n s, 225' e Eighth Ave., 3 five-sty brown-stone tenements, tin roofs; cost, each, \$35,000; owner, Henry R. Mount, 359 Pearl St.; architect, A. B. Ogden; builders, Geo. Whitfield and O'Keefe & Co.
 Eighty-fourth St., s s, 255' 6" w Third Ave., five-sty brick and brown-stone tenement, gravel roof; cost, \$13,000; owner, Gideon Fountain, 153 East Sixty-second St.; architect, A. B. Ogden.
 Fifty-first St., n s, about 300' e Tenth Ave., two-sty brick and stone church, tin roof; cost, \$100,000; owner, Rev. M. J. Brophy, 247 West Fifty-first St.; architects, N. Le Bruu & Son.
 Eighty-third St., s s, 300' e Ninth Ave., 7 four-sty brick and brown-stone dwells., tin roofs; cost, each, average, \$20,000; owner, Wm. Noble, Seventh Ave., s w cor. Fifty-seventh St.; architect, G. W. da Cunha.
 Eighty-fourth St., n s, 175' e Fifth Ave., 2 four-sty and basement Connecticut brown-stone dwells., tin roofs; cost, \$35,000 and \$37,000; owner, Philip Braender, Ave. B, between Eighty-fourth and Eighty-fifth Sts.; architect, J. Brandt.
 East Thirty-second St., Nos. 16, 18 and 10, 3 five-sty brick tenements; tin roofs; cost, each, \$17,000; owner, Jacob Schlosser, 364 East Fifty-fifth St.; architect, Jobst Hoffmann.
 Madison Ave., n w cor. One Hundred and Seventy-third St., two-and-one-half-sty frame dwell., shingle roof; cost, \$3,300; owner, Henry C. Mandeville, 1760 Washington Ave.; architect, F. F. Ward.
 West Eighty-fourth St., Nos. 360, 362 and 364, 3 four-sty Connecticut brown-stone dwells., tin roofs; cost, each, \$15,000; owner, Mrs. Margaret A. Brennan, 73 West Sixty-ninth St.; architect, F. F. Ward.
 Forty-ninth St., s s, 81' 6" e Tenth Ave., and Forty-eighth St., s s, 81' 6" e Tenth Ave., 2 five-sty brown-stone tenements, tin roofs; cost, each, \$17,000; owner, William Rankin, 338 West Forty-seventh St.; architect, M. L. Unglich.
 Forty-seventh St., s s, 310' e Tenth Ave., 2 five-sty brown-stone tenements, tin roofs; cost, each, \$22,000; owners, Mr. and Mrs. Hugh McKee, 114 Washington St., Hoboken; architect, M. L. Unglich.
 Forty-seventh St., s s, 209' e Tenth Ave., 2 five-sty brown-stone tenements, tin roofs; cost, each, \$22,000; owner, Philip Hausman, 889 Tenth Ave.; architect, M. L. Unglich.
 Second Ave., Nos. 467 and 469, 2 five-sty brick tenements, tin roofs; cost, each, \$12,000; owners, Josephine Anderson and others, by E. Ellyer Anderson, agent, 165 Madison Ave.; architect, J. Boeckell.
 East Seventy-first St., No. 427, four-sty brick tenement, tin roof; cost, \$9,500; owner, Henry Rollmann; architects and builders, Wm. Fernschild & Son.
 Sixty-eighth St., s s, 50' w Ave. B, three-sty brick dwell., tin roof; cost, \$4,000; owner, A. J. Foy, 27 Mount Morris Ave.; architect, A. J. Miller; builder, Thos. Wilson, superintendent.
 Eighth Ave., s s, One Hundred and Thirty-second St., to One Hundred and Thirty-third St., 7 two-sty brick flats and stores, tin roofs; cost, each, \$16,000; owner, Henry Well, Mansion House, Brooklyn; architects, Babcock & McAvoy.
 Third Ave., s s, 5' 9" w One Hundred and Fourth St., 2 five-sty brown-stone front tenements and stores, tin roofs; cost, each, \$ 8,500; owner, Patrick McManus, 110 East Ninety-first St.; architect, John Braudt.
 One Hundred and Twenty-third St., s s, 85' e Lexington Ave., five-sty brick flat, tin roof; cost, \$16,000; owner, Wm. C. Lester, 232 West Fifty-second St.; architect, Geo. B. Pelham.
 Sixth St., n s, 40' w Ave. B, five-sty brick tenement, tin roof; owner, Esther Marks, 101 Ave. B; architect, Edward Kenny.
 Eighty-first St., n s, 200' e Tenth Ave., 7 three-sty brown-stone front dwells., tin roofs; cost, each, \$12,000; owner, Daniel Herbert, 215 East Forty-eighth St.; architect, H. J. Hardenbergh; builders, D. & E. Herbert and O. T. Mackey.
 West Thirty-third St., Nos. 107, 109, 111 and 113, seven-sty brick fire-proof apartment-house; cost, \$160,000; owner, Jas. D. Fish, 78 Wall St.; architect, Ed. H. Kendall; builders, W. A. & F. E. Conover and A. G. Bogert & Bro.
 West Thirty-third St., Nos. 113, 115, 117 and 119, eight-sty brick fire-proof apartment-house, fire-proof roof; cost, \$185,000; owner, architect and builders, same as last.
 Fifty-ninth St., n s, 200' w Tenth Ave., five-sty brick and stone flat, tin roof; cost, \$18,000; owner, Henry Richl, 118 East Ninety-first St.; architect, Aug. Hatfield.
 Chrystie St., No. 58, five-sty brick tenement, tin roof; cost, \$16,000; owner, H. W. Miles, 55 Chrystie St.; architect, Wm. B. Tubby.

One Hundred and Nineteenth St., n s, 150' e Eleventh Ave., frame coal-pocket; cost, \$1,000; owner, Robert Murray, 221 West One Hundred and Thirtieth St.; architect, G. W. Walgrove.
 One Hundred and Fifty-ninth St., s s, 300' e Courtland Ave., three-sty frame tenement; tin roof; cost, \$5,000; owner, Chas. Nuendorf, 243 Christopher St.; builder, Adam Hansen.
 Worth St., No. 105, five-sty brick and iron store; tin roof; cost, \$30,000; owner, Clinton Ogilvie, 55 West Fifty-fifth St.; architect, Richard Beever.
 West Forty-eighth St., No. 435, four-sty brick tenement, tin roof; cost, \$15,000; owner, James Mullien; West Forty-eighth St.; architect, W. F. Smoots.
 West Forty-fifth St., No. 126, five-sty stone and brick flat, tin roof; cost, \$30,000; owner, Anna Gillies; 126 West Forty-fifth St.; architect, A. W. Corlies.
 East Seventy-eighth St., Nos. 164, 166, 168 and 170, two-sty brick stable, tin roof; cost, \$3,000; owner, Elijah B. Middlebrook, 121 East Seventy-eighth St.; architect, F. B. Sewell.
ALTERATIONS.—Ave. B, No. 311, repair damage by fire; cost, \$3,750; owners, Alcott & Wehrum, on premises; builder, Henry Walkco.
 West Fifty-eighth St., No. 44, three-sty brick extension, tin roof; cost, \$3,000; owner, E. J. Donnell, on premises; builder, L. N. Crow.
 Jacob St., Nos. 11 to 17, one-sty brick extension, gravel roof; cost, \$3,000; owner, Ambrose K. Ely, 132 East Twenty-third St.; architect, John McIntyre; builders, Robinson & Wallace and Wm. J. O'Connor.
 Bathgate Ave., n w cor. One Hundred and Seventy-fifth St., interior alterations; cost, \$3,000; owner, Hugh N. Camp, Fordham Ridge, Twenty-fourth Ward; architect, John E. Kerby.
 Park Ave., Nos. 17 and 19, new first-sty front, iron-work, condensed walls rebuilt; cost, \$10,000; lessee, Joshua Von Brunner, on premises; Isaac Greenwood, Jr., principal owner and representative for heirs, 410 West Fourteenth St.; architect, G. E. Harding.
 West Tenth St., No. 12, four-sty frame extension, tin roof, interior alterations; cost, \$15,000; Bruce Price, 23 West Twenty-third St., agent for Josephine L. Price.
Philadelphia.
BANK BUILDING.—At the s e cor. Fifth and Chestnut Sts., Brexel & Co. will erect a new bank building, 55' x 105', 58' high; to be built of white marble, the banking-room to be finished in Indiana limestone; plans by Wilson Bros. & Co., architects.
HOUSE.—Residence for Theo. Engel, Esq., at Sixteenth and Jefferson Sts., from plans by Wilson Bros. & Co., architects.
BUILDING PERMITS.—Arlington St., cor. Monument St., bet. Seventeenth and Eighteenth Sts., 17 two-sty dwells., 13' and 14' x 38', and 14' and 16' x 42'; D. C. Cleaver, owner.
 Thirty-third St., s Spring Garden St., 6 three-sty dwells., 48' 6" x 53'; J. H. McIlvahn.
 Thirtieth St., cor. Fletcher St., 4 two-sty dwells., 14' x 29'; Samuel Stewart, contractor.
 Grape St., n e Wood St., 2 three-sty dwells., 13' x 32'; Frank Elliot, contractor.
 Crane Ave., bet. Mitchell St. and Ridge Ave., 2 three-sty dwells., 16' x 32'; Frank Elliot, contractor.
 Green St., s Quon St., 2 two-sty dwells., 19' and 20' x 60'; Wm. Garvier, contractor.
 Vine St., e Twenty-fifth St., 2 two-sty dwells., 17' x 58'; W. T. B. Roberts, supt.
 Long Lane, n Reed St., two-sty factory, 32' x 50'; M. M. McCuen, owner.
 Gerret St., e Nineteenth St., two-sty dwell., 14' x 39'; M. McManes, contractor.
 Cambridge St., No. 1624, three-sty dwell; 16' x 45'; Chas. O'Krouglowsky, contractor.
 McKean St., bet. Eleventh and Twelfth St., two-sty dwell., 16' x 28'; W. H. Messick, contractor.
 Southampton Ave., e Twenty-seventh St., two-sty dwell., 24' x 32'; C. McDowell, owner.
 Cumberland St., w Amber St., three-sty dwell., 18' x 62'; Geo. Kessler, contractor.
 Catherine St., w Broad St., 2 two-sty dwells., 18' x 60'; Jno. Loughran, owner.
 Ward St., s Wharton St., two-sty dwell., 18' x 28'; Lewis Simpson, owner.
 Brimhurst St., No. 206, two-sty dwell., 18' x 42'; Thos. McCarty, contractor.
 Twentieth St., cor. Reed St., two-sty dwell and stable, 16' x 45'; J. P. Leonard, owner.
 Perkomen St., w Vineyard St., three-sty dwell., 16' x 42'; Carlhoffer & Co., owners.
St. Louis.
BUILDING PERMITS.—Fifty-six permits have been issued since our last report, twenty-four of which are for unimportant frame houses. Of the rest those worth \$2,500 and over are as follows:—
 Mrs. C. Minke, 2 adjacent two-sty dwells.; cost, \$6,500; Marko & Sons, contractors.
 Charles Wunderlich, 4 adjacent two-sty dwells.; cost, \$13,900; C. F. May, architect; Bierman & Abbing, contractors.
 St. Louis M. H. Bldg Co. No. 3, 2 adjacent two-sty dwells.; cost, \$5,000; E. Mortimer, architect; J. B. Major & Co., contractors.
 Sam. Cupples & Co., one-sty storage-house; cost, \$3,000; J. B. Legg, architect; F. C. Bouscalt, contractor.
 Marlett & Johnson, two-sty dwell.; cost, \$3,000; E. Mortimer, architect.
 Fred. Netzeband, two-sty dwell.; cost, \$7,000; F. H. Torrence, contractor.
 St. Joseph's Parish, three-sty schoolhouse; cost, \$6,000; B. J. Goesse, architect; Goesse & Kemmers, contractors.
 Chas. H. Grote, 2 adjacent two-sty dwells.; cost, \$10,000; B. J. Goesse, architect; Goesse & Kemmers, contractors.
 Henry Meyer, two-sty dwell.; cost, \$5,000; A. Belinke, architect; Goesse & Kemmers, contractors.
 E. Cavanaugh, two-sty dwell.; cost, \$4,600; J. Cairns, architect; Morris, contractor.
 Henry Hoberg, two-sty dwell.; cost, \$4,000; C. F. May, architect; Fred. Hoberg, contractor.
 W. M. Horton, two-sty dwell.; cost, \$12,000; A. Belinke & Co., architects.

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E. B. Baldwin, two-story dwell., 599 Congress St.; cost, \$1,000; architect, S. M. Van Osdel.
E. Marlow, 1 one-story dwell., 330-336 Parnell Ave.; cost, \$1,000.
M. Kuzicka, three-story dwell., 37 Nineteenth St.; cost, \$5,000.
P. Douvak, two-story dwell., 1115 Genesee St.; cost, \$3,000; builder, G. A. Johnson.
G. Gulbrandson, 3 three-story flats, 87 West Huron St.; cost, \$1,600.
Chas. Eberle, three-story store and flats, 613 Sedgwick St.; cost, \$8,000; architect, B. F. Bess.
W. Rowell, two-story dwell., 136 Taylor St.; cost, \$3,000; architect, J. B. Bourgeois.
John Lynch, two-story dwell., 560 North State St.; cost, \$15,000.

Cincinnati.

House. — House for Mr. Louis Van Antwerp; cost, \$7,000; James Griffith & Sons, builders; Frederick B. White, architect, New York.
BUILDING PERMITS. — P. Hickley, three-story brick dwell.; cost, \$5,000.
Dr. Jas. I. Taylor, addition and repairs, cor. of Seventh and Elm Sts.; Charles Crapsey, architect; cost, \$7,500.
F. Schell, three-story brick dwell., s e cor. Price and State Ave.; cost, \$3,000.
F. H. Bauman, three-story brick dwell., Eighth St., near Carr; cost, \$6,200.
H. Frey, two-story brick dwell., Harrison St., near Broadway; cost, \$5,400.
F. Hanna, four-story brick dwell., 569 Walnut St.; cost, \$6,500.
Jewish Synagogue, n e cor. of Richmond and Mount Sts.; A. C. Nash, architect; cost, \$15,000.
J. S. Armstrong, five-story brick store, Sycamore, bet. Four and Fifth; cost, \$20,000.
11 permits for repairs; cost, \$9,500.
Total permits, 22; total cost, \$47,100.
Total cost to date, \$1,010,450.

Cleveland.

BANK BUILDING. — Bank, on Euclid Ave., for the Savings and Trust Company, three stories high; cost, \$65,000; Geo. H. Smith, architect; Thos. Simmons, contractor.
ALTERATIONS. — Alterations on old City Hall Building on the Public Square; cost, \$25,000; Levi S. Scofield, architect; Uhl & Koestung, contractors.
DWELLINGS. — Frame dwells., for Geo. H. Baker, cor. Case Ave. and Garden St.; cost, \$7,000; F. C. Bate, architect.
Two frame dwells., on Woodland Court, for Fred. Keppler; cost, \$5,000; F. C. Bate, architect.

New York.

CHURCH. — Ground has been broken for the Church of the Holy Rosary, in East One Hundred and Nineteenth St.; Rev. James Hyron will be pastor.
METROPOLITAN MUSEUM OF ART. — Mr. Howe has introduced in the Assembly a bill, and had it ordered at once to a third reading, to enable the Board of Estimate and Appointment to expend \$350,000 for the enlargement of the Metropolitan Museum of Art. The same bill took a similar course in the Senate a day or two ago. It is likely to pass.
HOUSES. — For the Union Theological Seminary, 3 brick and brown-stone dwells., 16' x 54' are to be built on the s e of Seventieth St., adjoining the Seminary, at a cost of about \$60,000; Messrs. Jas. Brown Lord and Wm. A. Potter, architects.
On the s e of Sixty-eighth St., 20' x 50' of Third Ave., 10 three-story and basement residences, 20' x 52', are to be built for Messrs. W. F. Schermerhorn and R. T. Auchmuty, from designs of Mr. Henry J. Hardenbergh.
On the s e of One Hundred and Thirtieth St., near Seventh Ave., a three-story stone-front house is to be built for Mr. C. M. Earle, from designs of Mr. Jas. E. Ware.
For the Rev. E. C. Houghton, a three-story and basement residence, 20' x 37', is to be erected on the s e of Sixty-ninth St., 17' w of Ninth Ave., at a cost of \$7,500, from designs of Mr. G. M. Huss.
Mr. Terence Kiernan will build 3 four-story brown-stone houses, on the s e of Fifty-fourth St., near Ninth Ave., to cost about \$10,000.
STOCK. — At Nos. 511 to 547 Pearl St., a seven-story building, with basement and sub-basement, is to be built for the proprietors of Puck, at a cost of \$150,000, from designs of Mr. Albert Wagner.
BUILDING PERMITS. — Cansevoort St., No. 92, one-story brick stable, gravel roof; cost, \$3,000; owner, Jacob Thumann, 96 Cansevoort St.; architects, Axford & Cramer, builder, J. Buckley.
Eighty-eighth St., n s, 257' w Ave. A., 2 four-story brick and brown-stone tenements, tin roof; cost, each, \$15,000; owner, Jacob Wicks, 509 East Eighty-seventh St.; architect, John Brandt.
One Hundred and Thirty-seventh St., s s, 36' e St. Ann's Ave., three-and-one-half-story brick and stone trimmed dwell., tin roof; cost, \$10,000; owner, John Klister, 110 East One Hundred and Twentieth St.; architect, Chas. Baxter.
Sixty-fourth St., s s, 231' e First Ave., 3 five-story brick and stone trimmed tenements, tin roofs; cost, each, \$15,000; owner, Michael Whelan, 934 East One Hundred and Thirty-eighth St.; architect, Charles Baxter.
Fourth Ave., s w cor. Seventy-ninth St., 2 four-story brick dwells., tin roofs; cost, \$45,000; owner, Jas. V. S. Woolley, 76 East Seventy-ninth St.; architect, J. E. Ware.
Lexington Ave., Nos. 543, 585 and 587, two-story brick building, gravel roof; owner, Edward Rafter, on premises; architect, J. H. Friend.
Norfolk St., No. 31, rear, five-story brick tenement, tin roof; cost, \$8,000; owner, Bertha Solomon, 2 Baxter St.; architect, W. Graul.
Fourth Ave., s e cor. Nineteenth St., brick and Ohio stone flat, brick and concrete roof; owners, J. Lawrence Aspinwall, 85 Clinton Pl., Treasurer and Secretary of the Florence Apartment Company, and Mrs. U. B. Matthews, 101 Fifth Ave.; architects, Renwick, Aspinwall & Russell.
Madison Ave., s s, 121' w s Seventieth St., four-story dwell., tin roof; cost, \$76,000; owner, Isaac Stern, 32

to West Twenty-third St.; architect, William Schickel.
One Hundred and Seventh St., s s, 350' e First Ave., three-story brick stable, gravel roof, cost, \$5,000; owner, Robinson Hill, 201 Keep St., Brooklyn.
Ninety-first St., s s, 65' w Madison Ave., 2 four-story brick and brown-stone dwells., slate and tin roof; cost, each, \$25,000; owner, Emil Roessert, 608 Fifth St.; architects, Maclay & Davies.
East Fifty-fifth St., No. 106, rear of corner house and near Fourth Ave., four-story brown-stone dwell., tin roof; cost, \$3,500; owner, Samuel Montgomery, on premises; architect, F. T. Camp.
Cannon St., Nos. 31 and 33, 2 five-story brick tenements, tin roofs; cost, each, about \$16,000; owners, Henry Gucker, 181 Second Ave., and J. P. Schweikert, 100 West Fifty-first St.; architect, H. Gucker; builder, J. P. Schweikert.
Christopher St., No. 118, five-story brick building, tin roof; cost, \$15,000; owner, John Totten, 210 West Forty-ninth St.; architect, C. F. Ridder, Jr.
East Twenty-fifth St., No. 338, five-story brick tenement, tin roof; cost, \$15,000; owners, Watkins Bros., 301 East Forty-first St.; architect, F. T. Camp.
First Ave., n w cor. One Hundred and Seventeenth St., five-story brown-stone tenement, tin roof; cost, \$15,000; owner, John Cullen, 207 East One Hundred and Sixth St.; architect, J. Brandt.
One Hundred and Thirtieth St., n s, 90' w Sixth Ave., 4 three-story and basement Connecticut brown-stone dwells., tin roofs; cost, each, \$17,000; owner, Samuel O. Wright, 128 West One Hundred and Twenty-sixth St.; architects, Cleverdon & Putzel.
One Hundred and Thirtieth St., n s, 170' w Sixth Ave., 3 three-story Connecticut brown-stone dwells., tin roofs; cost, \$15,000 each; owner and architect, same as last.
Greenwich St., Nos. 83 and 85, running through and including Nos. 88 and 90 New Church St., four-story brick stable, tin roof; owner, American Express Co., Jas. C. Fargo, President, 56 Park Ave.; architect, E. H. Kendall.
East Fourth St., No. 98, five-story brick tenement, tin roof; cost, \$15,000; owner and builder, Jos. Schaeffler, 83 Second Ave.; architect, Julius Koekel.
Cypress Ave., s w cor. One Hundred and Forty-ninth St., three-story frame tenement and store, tin roof; cost, \$6,500; owner and builder, Geo. C. Glacius, 518 Cypress Ave.
Cypress Ave., s s, 200' s One Hundred and Forty-ninth St., three-story frame dwell., slate and tin roof; cost, \$4,000; owner and builder, same as last.
One Hundred and Forty-ninth St., s s, 51' w Cypress Ave., two-story frame dwell., tin roof; cost, \$3,500; owner and builder, same as last.
First Ave., s e cor. Thirty-fourth St., 2 five-story brick tenements and stores; cost, \$23,000; owners, Jas. Plunket, 24 Rutgers St.; architect, John B. Snook.
Ridge St., No. 67, six-story brick tenement and store, tin roof; cost, \$20,000; owner, S. Bachrach, 375 Grand St.; architect, Wm. Graul.
Third Ave., No. 2378, two-story brick store, tin roof; cost, \$8,000; owner, James Ayer, 203 East One Hundred and Twenty-eighth St.; architect and builder, J. B. Marshall.
Fourth Ave., n w cor. Seventy-second St., 5 four-story brick and stone front dwells., tin roofs; owner, Francis A. Croft, 42 West One Hundred and Twenty-eighth St.; architect, John G. Pringle.
Montgomery St., Nos. 31 and 33, five-story brick tenement, tin roof; cost, \$14,000; owner, Geo. Graham, 263 Henry St.; architect, Page Inskip.
Ninety-third St., s s, 90' w Ave. A., one-story brick pumping-house, gravel roof; cost, \$3,000; owner, Jacob Cuyper, s e cor. Fifth Ave. and Ninety-third St.; builder, Adam Weber.
First Ave., s w cor. Eighty-second St., five-story brick tenement and store, tin roof; cost, \$18,000; owner, Martha Gelston, 336 East One Hundred and Fourteenth St.; architect, J. H. Valentine.
First Ave., w s, 28' s Eighty-second St., 3 five-story brick tenements and stores, tin roofs; cost, each, \$16,000; owner and architect, same as last.
Twenty-fourth St., s s, 81' 6" e First Ave., 3 five-story brick tenements, tin roofs; cost, each, \$16,000; owner, Jos. P. Murray, 315 East One Hundred and Sixteenth St.; architect, J. H. Valentine.
Go — near St., No. 36, four-story brick tenement, tin roof; cost, \$11,000; owner, J. N. Martin, 320 Madison St.; architect, E. W. Greis; builders, C. Lockman and Grissler & Frause.
New Chambers St., No. 82, four-story brick tenement and store, tin roof; cost, \$10,000; owner, Elizabeth D. De Lancey, by W. D. Edmunds, attorney, 20 Union Sq.; architect, J. E. Ware.
West Fourteenth St., No. 104, four-story brick dwell. and store, slate and cement roof; cost, \$3,650; owner, Wetmore Estate, Chas. E. Ahrens, attorney, 255 Washington St.; architect, Chas. D. Maroni.
One Hundred and Fourth St., n s, 175' w Third Ave., three and part four-story brick and stone engine-house, tin roof; owner, City of New York Fire Department; architects, N. Le Brun & Son.
One Hundred and Twenty-sixth St., s s, 56' e Seventy-ninth St., 2 four-story brown-stone front dwells., tin roofs; cost, each, \$22,000; owner, Chas. Batchelor, 177 West One Hundred and Twenty-sixth St.; architect, M. V. B. — order.
One Hundred and Twenty-sixth St., s s, 90' e Seventy-ninth St., 5 four-story brown-stone front dwells., tin roofs; cost, each, \$20,000; owner, architect, etc., same as last.
ALTERATIONS. — Fifth Ave., No. 82, or West Fourteenth St., No. 2, being a w cor., wall taken down and renewed iron work, interior alterations and vaults undersidewalk; cost, \$50,000; lessee, W. Jennings Demorest, 21 East Fifty-seventh St., and Jos. I. Little; owner, Henry Van Schaick, Temple Ct., City; architect, W. H. Hume.
Madison St., Nos. 318 and 320, add one-story flat tin roof, also one-story brick extension, interior alterations, etc.; cost, \$6,500; owner, Jeremiah N. Martin, on premises; architect, E. W. Greis.
Broadway, No. 189, altered for offices, etc.; cost, \$21,000; owner, Wm. Hansen, Boreel Building; architect, H. R. Marshall.
Lexington Ave., s w cor. Forty-sixth St., repair damage by fire; cost, \$6,000; owner, Henry Kleenon,

Chairman Board Trusts, St. Paul, to build for the Roman Catholic Church, 80 East Forty-third St., architects and builders, C. Graham & Sons.
St. Mark's Pl., Nos. 17 and 19, from wall used, new iron cornice, carry up extension two stories; cost, \$2,000; owner, Carl Edel, 36 Broome St.; architect, J. Holmann.
Broadway, Nos. 265 and 267, take down present building (No. 267), and erect a five-story brick store and office building, etc.; cost, \$20,000; owner, Orphan Asylum, City, New York, Margaret T. Odell, first directress, 3 West Thirty-seventh St.; architect, Geo. E. Harney.
Pier No. 45, North River, one-story extension on west end, and repairs; cost, \$100,000; lessee, Oceanic Steam Navigating Co., 37 Broadway; builder, John J. Coyer.
South Washington Sq., No. 60, raise attic to full story and a four-story brick extension, tin roof; cost, \$15,000; owner, Wm. S. Maddock, 333 East One Hundred and Twenty-third St.; architects, Maclay & Davies; builder, Jas. H. Banta.
Fifth Ave., No. 234, and West Twenty-seventh St., No. 1, extension to be raised two stories and internal alterations; cost, \$6,000; owner, A. Chatain, 30 West Twenty-third St.; architect, M. N. Cutter; builder, not selected.
Prince St., No. 157, raise attic to full story, new flat roof, new store front, and internal alterations; cost, \$7,000; owner, Margaret Leibold, 123 Prince St.; architect, Wm. Kuhles; builder, not selected.
East Fifty-seventh St., Nos. 239 and 241, three-story brick extension, tin roof, and internal alterations; cost, \$6,000; owner, Wm. Logelin, 49 Bowery; architect, Adam Weber.

Philadelphia.

CHAPEL-BUILDING for the East Montgomery Ave. M. E. Church, at Frankford Road and Cumberland St., 53' x 58', to be built of stone and brick, open-timber roof; plans by Hazlehurst & Huelck, architects.
HOSPITAL. — At cor. of Tenth and Fitzwater Sts., the Mater Hospital will be built, to be a four-story brick building, 47' x 100', also the present old building will be remodelled; plans by Hazlehurst & Huelck, architects.
BUILDING PERMITS. — Waterlot St., n of York St., two-story dwell., 18' x 28'; D. Nerling, contractor.
Media St., cor. Fifty-fifth St., 2 two-story dwells., 14' x 32'; R. C. Dontrud, contractor.
Media St., No. Fifty-fourth St., two-story dwell., 10' x 40'; R. C. Dontrud, contractor.
North Front St., No. 153, three-story store, 22' x 38'; C. P. Westerhood, contractor.
Howard St., s Lehigh Ave., two-story factory, 54' x 100'; Jas. McCartney, contractor.
Thirty-eighth St., n Haverford Road 2 two-story dwells., 15' x 37'; Jas. B. Rigner, contractor.
Thirty-seventh St., s Centre St., three-story dwell., 14' x 30'; Wm. Bunch, Jr., contractor.
Clementine St., s Amber St., 6 two-story dwells., 15' x 28'; Dickson Bros., contractors.
Bancroft St., s Dickinson St., two-story dwell., 14' x 30'; and stable, 16' x 30'; L. Rosch, owner.
Wayne St., No. 4022, three-story dwell., 17' x 40'; J. C. Aldridge.
Fifteenth St., n Norris St., 20 three-story dwells., 16' x 62'; F. W. Snyder, owner.
Spring Garden St., No. 3221, three-story dwell., 20' x 60'; E. J. Lynch.
Salmon St., No. 1350, two-story dwell., 18' x 32'; Thos. Cassidy, contractor.
Grape St., w Thirty-sixth St., 2 two-story dwells., 15' x 30'; A. R. Johnson, contractor.
Reese St., No. 2531, 2 three-story dwells., 14' x 38'; H. M. Martin, contractor.
Twenty-eighth St., cor. Jackson St., 2 two-story dwells., 18' x 34'; J. Pennypacker, contractor.
Long Lane, No. 1405, two-story dwell., 16' x 30'; R. McFarland.
Germantown Ave., Nos. 2432 and 2434, 2 three-story dwells., 17' x 32'; D. W. Gaffey, owner.
Sixth St., cor. Somerset St., three-story dwell., 17' x 54'; D. Nerling, contractor.
Sixth St., n of Oxford St., two-story dwell., 16' x 44'; Jno. Dipple, owner.
Ashland Ave., bet. Mannayunk Ave. and Peach St., 2 two-story dwells., 18' x 44'; Jas. H. Coone, contractor.
Tower St., w of Twenty-first St., three-story dwell., 16' x 25'; Thos. McCouch, contractor.
Market St., Nos. 606 and 608, five-story addition to store, 38' x 100'; J. B. Doyle, contractor.
Jefferson St., bet. Mansion Ave. and McCormick St., 2 three-story dwells., 17' x 30'; A. M. McCormick.
Reese St., n of Lehigh Ave., two-story stable, 33' x 37'; W. Bartholomew, contractor.
Fine St., w of Broad St., three-story warehouse, 51' x 95'; W. H. Hamm.
Thirteenth St., w of Twelfth St., 2 two-story dwells., 15' x 28'; Thos. Brennan, contractor.
Fifth St., n of Venango St., three-story dwell., 18' x 26'; A. F. Rau, contractor.
Darien St., s of Montgomery Ave., 6 two-story dwells., 13' x 35'; V. Lent, contractor.
Norris St., e of Gault St., 3 three-story dwells., 19' x 28'; C. G. Harris, contractor.
Adams St., bet. Sharp and Terrace Sts., 3 three-story dwells., 15' x 30'; Thos. Haggerty, owner.
Fifth St., s w cor. Chestnut St., banking house, 55' x 105'; Geo. Watson, contractor.
Gorgas St., e of Musgrave St., three-story dwell., 18' x 46'; Martin Hetzel, contractor.
Twelfth St., No. 947, three-story dwell., 16' x 36'; A. Arnold, owner.
John St., e of Cooper St., 2 two-story dwells., 16' x 44'; McLaughlin & McNamara.
Brinkhurst St., No. 107, 3 three-story dwells., 13' x 32'; W. H. Brunner, contractor.
Green St., No. 1911, fourth-story addition to dwell., 30' x 36'; Geo. W. Viss, owner.
Beach St., bet. Rush St. and Aramingo Canal, one-story storehouse, 30' x 103'; H. L. Franka, contractor.
Wolf St., w of Sixth St., 6 two-story dwells., 16' x 30'; W. J. Smith, contractor.
Locust St., w of Thirty-seventh St., 8 three-story dwells., 19' x 54'; W. S. Kimball, contractor.
De Kalb St., bet. Walnut and Locust St., 10 three-story dwells., 16' x 42'; W. S. Kimball, contractor.

(Reported for The American Architect and Building News.)

BUILDING PATENTS.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

298,723. FIRE-ESCAPE. — Samuel Belts, Wilmington, Del.
298,724. HINGE. — Amos S. Blake, Waterbury, Conn.
298,725. FIRE-ESCAPE. — Joseph Henry Bowley, Marquette, Ill.
298,727. SHINGLE-SAWING MACHINE. — Gordon Earl, Herson, Mich.
298,750. HYDRAULIC COCK OR FILTERING FAUCET. — Albert Halliwell, Lowell, Mass.
298,755. PLANING-MACHINE. — Levi Houston, Montgomery, Pa.
298,757. FIRE-PROOF FABRIC. — Henry W. Johns, New York, N. Y.
298,759. GANT-HOOK OR DOG. — Amos Kennard, Clearfield, Pa.
298,760. ADGE. — Henry L. Shaler, Deep River, Conn.
298,767-768. PNEUMATIC DOOR-CHECK. — John A. Sherman, Boston, Mass.
298,769. PORTABLE BUILDING. — Joseph Sanford Simmons and Robert Marion Simmons, Bolton, S. C.
298,770. BUILDERS' SCALFOLDING. — Daniel W. Spooner, Minneapolis, Minn.
298,804. ADJUSTABLE SUPPORT FOR WATER-CLOSET BASINS. — Henry Cory Weeden, Boston, Mass.
298,805. FLUSHING-APPARATUS FOR CLOSETS AND URINALS. — Henry C. Weeden, Boston, Mass.
298,804. DRAUGHTSMAN'S ADJUSTABLE CURVE RULE. — Frank Winthrop Davenport, Providence, R. I.
298,830. LATCH. — George Fowler, Philmont, N. Y.
298,841. TRAP FOR SINKS, ETC. — Henry Friedrich, East Port Chester, Conn.
298,850. TILE-MACHINE. — Francis M. Maxwell G., New York, N. Y.
298,850. BLIND-SLAT OPERATOR. — William H. Kueran, Auburn, Ind.
298,851. LOCK-STRIP. — Jacob William Kohn, Newark, N. J.
298,858. BORDER-LIGHT FOR THEATRES. — John T. Preddy, Carson, Nev.
298,905. BRICK-MACHINE. — Wm. Stewart Smith, Dayton, O.
298,914. STAY-ROLLER FOR SLIDING-DOORS. — Le Grand Terry, Horseheads, N. Y.
298,921. DECORATIVE TILE. — Savillon Van Campen, Jersey City, N. J.
298,933. SHUT-ELEVATOR. — Sylvester Barch, Etna, Ohio.
298,941. PAINT. — Louis Brown, New York, N. Y.
298,961. DOOR-RECUER. — Charles Franke and August Peters, Hoboken, N. J.
298,970. LEAVE-THROUGH HANGER. — Henry John Hufnagel, Athens, O.
298,988. DOOR-CHECK. — John J. Lamb, Waterloo, Iowa.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS. — Since our last report thirty-six permits have been granted, the more important of which are the following:
Wm. Carback, 2 two-story brick buildings, w s Chapel St., s of Eager St.
W. I. Phillips, 3 three-story brick buildings, commencing s w cor. Fulton and Mulberry Sts.
J. H. Vonderhorst, 2 two-story brick buildings, s e s Madala Alley, s of Baltimore St.
G. H. Fisher, 2 two-story brick buildings, s e s Lane, between Harford Ave. and Eden St.
John Small, 2 two-story brick buildings, s e s Elbow Lane, between Greene and Warner Sts.
Wm. Colton, 2 three-story brick buildings, s e s Lafayette Ave., s of Elmer St., and 4 two-story brick buildings (square) in their rear.
C. A. Hudell, 4 two-story brick buildings, w s Vincent Alley, s of Lafayette Ave.
Henry Richer, three-story brick building, n e cor. Charles and Little Hughes Sts.

Boston.

CHURCH. — The First Spiritual Temple, now building at the cor. of Exeter and Newbury Sts., is from the plans of Messrs. Hartwell & Richardson, architects, of Boston. It covers ground measuring 62' x 106', is built of granite and brown stone, in the Romanesque style of architecture, and its estimated cost, \$140,000; Norcross Bros., builders.
BUILDING PERMITS. — Brick. — Baldwin St., near Northampton St., Ward 18, for Hets of Eliza Cushing, family-hotel, 63' 9" x 79' 6", five-story mansard; Vinal & Dodge, builder.
Shawmut Ave., No. 748, cor. Ruggles St., Ward 19, for David H. McKay, skating-rink, 103' and 112' x 272', one-story arched; David H. McKay, builder.
Tremont St., Nos. 1207-1211, Ward 19, for Wm. Queson, tenement and store, 57' x 62' 6", four-story flat; John Hegon, builder.
Fairfield St., cor. Marlborough St., Ward 11, for John T. Morse, Jr., dwell., 47' x 67', three-story flat; S. H. L. Pierce, builder.
Columbus Ave., cor. Northampton St., Ward 18, for Society Adult Israel, church, 63' 9" x 80' 3", two-story pitch; J. H. Kelley, builder.

Maple St., cor. Cheney St., Ward 21, for Geo. L. Adams, dwell., 33' x 40' and 31' x two-story pitch; ell, 151' 6" x 29'; South-Westly, builder.
Wilmington St., No. 25, Ward 18, for Samuel Stubbs, family-hotel, 40' x 102', four-story flat; Samuel Stubbs, builder.
Brookline Ave., rear, near Depot St., Ward 22, for B. & A. R. R. Corp., car-house, 16' x 29', one-story pitch; B. & A. R. R. Corporation, builders.
Beacon St., No. 230, Ward 11, for Edward Gray, dwell., 24' x 60' 8", five-story flat; Alonzo Folsom, builder.
Washington St., cor. Worcester St., Ward 18, for Geo. A. Gibson, dwell. and store, 29' x 53', four-story flat; James E. Potter, builder.
Washington St., Nos. 1671 and 1673, Ward 18, for Robert H. Allen, dwell. and store, 24' x 46', four-story flat; Jas. E. Potter, builder.
Worcester St., Nos. 11, Ward 18, for Geo. A. Gibson, 3 dwell. and stores, 24' x 42', four-story flat; Jas. E. Potter, builder.
Temple St., Ward 11, for Christian Sechel, dwell., 12' x 37', four-story flat; Adam Hahn, builder.
Newbury St., Nos. 250-256, Ward 11, for Alden Avery, 4 dwell., 18' 11" x 62', three-story mansard; Alden Avery, builder.
Glover St., Nos. 42-46, for Silas W. Merrill, 3 dwell., 22' 6" x 42', three-story mansard; Silas W. Merrill, builder.
West Broadway, Nos. 173-177, Ward 13, for A. A. Hely, family-hotel and stores, 40' x 60', four-story flat; A. C. Barstow, builder.
Wood. — Auburn St., No. 8, Ward 19, for W. J. McCormick, dwell., 17' and 32' x 43', three-story flat; Henry Rockwell, builder.
Washington St., near Harvard St., Ward 21, for John McDonald, mechanical-building, one-story pitch, 16' x 22'; John McDonald, builder.
Cambridge St., cor. Gilbert St., Ward 23, for Joseph Wilson, dwell., 24' x 60', three-story hip; Joseph Hamerle, builder.
Sugar Hill, near Richards St., Ward 10, for Standard Sugar Refinery, carriage-house, 22' x 22', one-story flat; W. H. Moses, builder.
King St., near Dorchester Ave., Ward 21, for F. M. & A. G. Frost, two-story pitch building, 23' x 29' 6", ell, 17' x 18' 6"; Chas. L. Welden, builder.
Hyde Park Ave., Ward 23, Mrs. A. N. Patterson, dwell., 25' and 30' x 30'; ell, 12' x 18', two-story pitch; Wm. V. Patterson, builder.
Whitney St., No. 36, Ward 22, for Kate Manning, dwell., 17' and 27' x 61', three-story hip; Frederick McKenney, builder.
Lexington St., No. 239, Ward 1, for Henry Ewell, dwell., 21' x 45', two-story mansard; Ezra Houels, builder.
West First St., No. 394, Ward 14, for Isabella Jarvis, store, 30' x 30', one-story flat; Richardson & Hatch, builders.
Dorr St., Ward 11, for Edwin Daniels, stable 23' x 30', one-story pitch; John R. Perkins, builder.
Haverhill St., cor. Chelsea St., Ward 3, for John Richardson, dwell. and store, 24' x 38' and 44', three-story flat; John B. Wilson, builder.
Saratoga St., No. 589, for Thomas Pounded, dwell., 12' x 29', two-story flat; Thomas Pounded, builder.
Monroe St., Nos. 61 and 63, Ward 21, for J. C. & E. A. Loud, 2 dwell., 17' x 18' and 22' x 31', two-story pitch; Chas. E. Currier, builder.
Warren St., Nos. 19 and 21, Ward 21, for Francis A. Brooks, mercantile, 43' x 53', three-story flat; Warren Hayford, builder.
Poplar St., near South St., Ward 25, for John Pierce, dwell. and store, 30' x 11' and 20' x 28', two-story pitch; Wood & Weatherbee, builders.
East Fourth St., No. 789, Ward 11, for Henry Husey, 2 dwell., 21' 8" x 25' 30" and 19' 6" x 29' 7", three-story pitch; Wm. T. Eaton, builder.
Dennis St., No. 71, Ward 20, for C. L. Crober, dwell., 24' 6" x 30', two-story pitch; F. C. Crober, builder.
Sheridan Court, cor. Taft St., Ward 3, for City of Boston, storage, 30' x 60'; one-story flat.
Tremont St., cor. Huntington Ave., Ward 22, 0 dwell., 18' 11" x 22' 49', one-story flat; for Albert Golder, A. D. Gould, builder.
Summer St., No. 82, Ward 3, for Charles R. Gassett, dwell., 21' and 32' x 42', three-story flat; E. W. Archer, builder.
Dorchester Ave., near Dorchester St., Ward 15, 2 dwell. and stores, 19' 10" x 30' 9", three-story flat; John W. Wigglesworth, builder.
Adams St., rear, Butler St., Ward 24, for Jas. H. McGrath, dwell., 17' and 30' x 30', two-story pitch; F. M. Severance, builder.
A'ams St., opposite Robinson St., Ward 21, for Charles Sheridan, dwell., 19' x 14' 6" and 20' x 37', two-story pitch; James Bacon, builder.
Altan St., rear, near Ashmont St., Ward 24, for S. E. W. Smith, stable, 23' x 31' 6", one-story pitch; A. M. Price, builder.
A'aron Ave., near Clement St., Ward 24, for Sarah Snow, dwell., 23' and 28' x 30'; ell, 20' x 20'; two-story pitch; F. M. Severance, builder.
Harry Ave., near Eaglewood Ave., Ward 23, for Frank F. Norton, dwell., 30' 6" and 30' x 23' 6", two-story pitch; Morton & Chesley, builders.
Cambridge St., cor. Mansfield St., Ward 25, for Silas C. Hammond, dwell., 22' and 22' x 34'; two-story pitch.
Washington St., cor. Keyes St., Ward 23, for Lawrence Follam, dwell. and store, 22' 6" x 30', three-story flat.
Eaglewood Ave., near Beacon St., Ward 25, for Austin B. French, dwell., 37' x 44' and 69', three-story pitch; S. H. & L. Pierce, builder.

Brooklyn.

BUILDING PERMITS. — Spencer St., w s, 150' x Willoughby Ave., three-story frame tenement, tin roof; cost, \$1,000; owner, James Hanahan, Walworth St.; builders, A. Rattan and Myron C. Rush.
Pacific St., s s, 90' 10" x Troy Ave., and Pacific St., n s, 172' x Troy Ave., 12 two-story frame dwell., tin roofs; cost, each, \$2,800; owner, etc., George R. Waldron, 1906 Atlantic Ave.
On Bulkhead, foot of North Twelfth St., 600' from First St., two-story brick building for manufacturing purposes, gravel and felt roof; cost, \$10,000; owner,

Pratt Mfg Co., on premises; architect, R. G. Ewer; builder, not selected.
Leicester St., s s, 100' x Stuyvesant Ave., 8 two-story brown stone dwell., tin roofs; cost, each, \$5,000; owner, Henry Cornell, 133 East One Hundred and Nineteenth St., New York; architect, W. Baker.
Mary Ave., n w cor. Monroe St., three-story brick store and dwell., also brick stable, tin roof; cost, \$7,500; owner, William Richter, 610 Mary Ave.; architect, A. Hill; builder, T. W. Swinum.
A'rens St., n w cor. Warren St., 2 four-story brick tenements, tin roofs; cost, each, \$4,000; owner, Jas. McTiary, 491 Warren St.
Union St., s e cor. Fifth Ave., four-story brick stone store and tenement, tin roof, wooden cornice; cost, \$8,000; owner and builder, E. L. Donnellon, President St., near Henry St.; architect, R. Dixon.
Bridge St., n e cor. Tillary St., 2 four-story brick stores and tenements, gravel roofs; cost, \$22,000; owner, Geo. Wilson, 77 Willoughby Ave.; architect, M. J. Morrill; builders, F. J. Carlin and T. D. Norrie.
Ricksford St., No. 154, s s, 200' x Nassau Ave., three-story frame tenement, felt, cement and gravel roof; cost, \$1,200; owner, R. Shepard, 154 Ricksford St.; architect, F. Weber; builders, Gaitly and Smith and Post & Walker.
Leonard St., No. 722, s s, about 300' x Greenpoint Ave., three-story frame tenement, felt, cement and gravel roof; cost, \$4,000; owner, William Tracy, 732 Leonard St.; architects and builders, Post & Walker.
Fourth St., n s, 124' x Nostrand Ave., 4 three-story brown-stone dwell., tin roofs; cost, \$4,500 each; owner, etc., Daniel H. Norris, 339 Clifton Pl.
Hainbridge St., n s, 207' x Held Ave., two-story brick dwell., tin roof, wooden cornice, cost, \$3,500; owner, Kate Acor; architect, John Patten; builders, Lewis Acor and John Patten.
Washington Ave., w s, 129' x De Kalb Ave., five-story brick extension to the Graham House, tin roof, wooden cornice; cost, \$15,000; owner, the Brooklyn Society for the Relief of Respectable Indigent Females, Washington Ave.; architects, Wm. Field & Son; builders, Thomas H. Kuttan and John Lee.
Fourth St., No. 239, n s, 97' 10" x Fifth Ave., three-story brick double flat, tin roof; cost, \$9,000; owner, A. Moffett, 237 Fourteenth St.; architect, Geo. W. Bush.
Grand St., n s, 150' x Second St., three-story brick storehouse, tin roof; cost, \$6,000; owner, Thomas Kiley, 69 and 61 Broadway; architect, E. F. Gaylor; builders, Matthew Smith and T. H. Ferguson.
Rochester Ave., n e cor. Atlantic Ave., 5 two-story and basement frame dwell., tin roofs; cost, each, \$2,000; owners, Frederick and John Huby, 184 Chauncy St.; builder, John Huby.
Thomas St., No. 27, two-story frame dwell., tin roof; cost, \$3,000; owner, Wm. Grassman, on premises; architect, Frank Hahnberg; builder, W. Hillman.
South Fifth St., s s, 24' x Tenth St., 4 three-story brick tenements, tin roofs; cost, each, \$3,424; owner and carpenter, Wm. Kohlmeier, South First St., near Ninth St.; architect, A. Herbert; mason, M. Smith.
Jay St., s e cor. Jay St., four-story brick storehouse, tin roof; cost, \$22,000; owners, Alsgood, Raab & Co., Fulton St.; architect, U. F. Eisenach; builders, Thos. Dunham and Long & Barnes.
Serenity St., n s, 240' x Tenth Ave., two-story b' dwell., tin roof; cost, \$5,000; owner, Ellen A. Haines, 322 Fourteenth St.; builder, J. P. Goodwin.
Stenden St., No. 29, s s, 275' x Park Ave., four-story brick tenement, tin roof; cost, \$5,000; owner and architect, J. F. Carey, 418 Lafayette Ave.; builders, Long & Barnes.
G. Goodwin, 2 three-story stores and dwell., 500 and 1001 West Madison St., cost, \$16,000; architect, Wm. Strippelman; builders, Wilkie & Holman.
E. Hoboe, two-story dwell.; cost, \$2,500; builder, Wm. Treiler.
E. Larson, three-story flat, 252 West Erie St.; cost, \$3,500.
F. Berry, three-story dwell., 203 Lincoln Ave.; cost, \$4,000.
M. Zala, two-story flat, 23 Lane Pl.; cost, \$5,000; architect, R. F. Boos; builders, H. Pauley & Co.
F. Farley, 2 two-story flats, 265 and 267 Russell St.; cost, \$7,000; architect, A. B. Bass.
H. F. Brand, two-story dwell., 1133 Washington Boulevard; cost, \$4,000.
J. Buechel, two-story store and dwell., 756 West Madison St.; cost, \$4,500.
Caso Katate, three-story stores and flats, 43 to 47 South Halsted St.; cost, \$21,000; architect, J. N. Tilton; builder, J. Woolcott.
F. G. Logan, two-story dwell., 2919 Prairie Ave.; cost, \$10,000; architects, Wheelock & Clay; builder, W. L. Hoffman.
Victor Walters, three-story dwell., 71 Laflin St.; cost, \$7,000; architect, J. M. Van Osdell; builders, Rogers & Koch.
W. H. Johnson, three-story dwell., 656 Fulton St.; cost, \$7,000; builders, Rogers & Koch.
J. A. Wilens, three-story flat, 659 LaSalle Ave.; cost, \$10,000; architect, T. Karls; builder, C. Heilmann.
F. Charvat, two-story dwell., 635 Laflin St.; cost, \$3,100; architect, J. Vincer; builder, F. Mascher.
James & Hansen, 2 three-story stores and flats, 174 and 176 Indiana St.; cost, \$12,000; architect, C. O. Hansen; builders, T. Toblansen & Co.

Chicago.

BUILDING PERMITS. — I. Schroeder, three-story store and flat, 173 Milwaukee Ave.; cost, \$6,000; architect, H. Kley.
G. Goodwin, 2 three-story stores and dwell., 500 and 1001 West Madison St., cost, \$16,000; architect, Wm. Strippelman; builders, Wilkie & Holman.
E. Hoboe, two-story dwell.; cost, \$2,500; builder, Wm. Treiler.
E. Larson, three-story flat, 252 West Erie St.; cost, \$3,500.
F. Berry, three-story dwell., 203 Lincoln Ave.; cost, \$4,000.
M. Zala, two-story flat, 23 Lane Pl.; cost, \$5,000; architect, R. F. Boos; builders, H. Pauley & Co.
F. Farley, 2 two-story flats, 265 and 267 Russell St.; cost, \$7,000; architect, A. B. Bass.
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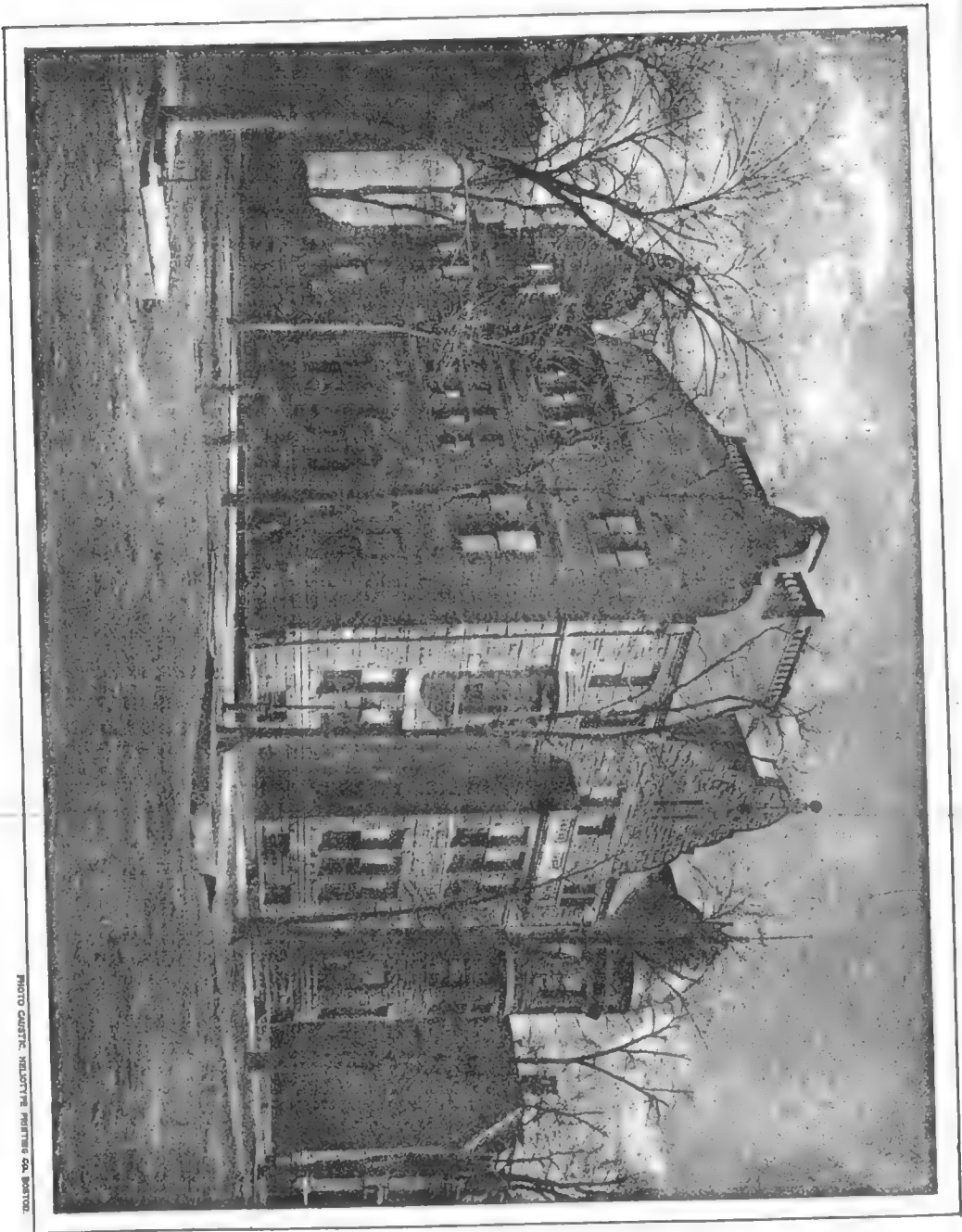


PHOTO COURTESY, NELLIE T. PETERSON, CHICAGO.

LUB HOUSE FOR THE UNION LUB, CHICAGO, ILL. DESIGNED BY FOSTER ARCHT.

Views. [Vol. XV. — No. 441.]

2, in my illustrated catalogue, you will see whole water-seal, and has been thoroughly connected with the Boards of Health of New pronounced by them to be non-siphoning; by a prominent architect of this city, who evaporation (during the absence of his family) of four months, and he found that operated during that time was not even possibility of destroying its seal by evapo-

absence of any angle, upon which grease de to form or collect; and I never heard of the many thousands now in use, "of the aimed as to obscure the line of water-seal;" it is self-scouring, cleaning its own surface disture to which it is attached. From the two years to evaporate the water out of my I be broken. Yours respectfully,
J. CONNOLLY.

IPLES OF GLASS-MAKING.

May 26, 1884.

THE AMERICAN ARCHITECT:

R. and others, "The Principles of Glass- making. Bell & Sons, Covent Garden, London. Upland & Co.'s book store, 283 Wash- ings respectively, DONALD MACDONALD.

ION OF PERMANENT GASES.

NEW YORK, May 26, 1884.

THE AMERICAN ARCHITECT:

correct the statement made in your edito- gues, in the issue of May 24, that hydro- gen to the liquid condition. first by M. Cailliet, at Paris, on December 1879, and possibly solid particles, rug, M. Pistet, of Geneva, succeeded in liq- uating the gas, it having a steel-blue tint. ulations of the apparatus used by these els "Hydrogen," in the *Encyclopedia Brit- annica* truly, MICHAEL M. LEBLANC.

IS A. LIPPINGS.

THEATRE, VIENNA.—The Stadt Theatre was fire on May 16, a few hours before the

EXPOSITION MAIN BUILDING.—The Boston building of the New Orleans exhibition is in remarkable edifice ever built in this country. position building ever erected in the world. d, at a moderate cost, in producing the larg- of which can be seen from any point, of which the building is 1375 feet long by 955 feet wide, area more than the Philadelphia Centennial are 1,650,000 square feet of floor-space, includ- may form a better impression of the vast- by imagining three ordinary city blocks sur- ounded by a solid roof. And, if he chooses to in still farther, he can picture a monster pan- try, extending before his vision uninterrupted by supports. The active commercial rivalry aptly shown by the distribution of contracts at, which will cover 1,000,000 square feet, is The window sashes come from Milwaukee, done by St. Louis parties. Four thousand pced from Wheeling, W. Va. Nine million r will be consumed. A massive group at, to be placed over the main entrance is being also a statue of Washington and Columbus, statues, which will appear in medallion form rammentation. Finely modelled cornices are e. The building will be 60 feet high, with a architect has been fortunate in rendering active. A platform will be erected on the s, from which visitors may have an excep- y from New Orleans, the exposition grounds, n surrounding country. There will be one around the entire circumference of the will be carried by 20 steam and hydraulic he manufacturers of these conveyances in th, situated in the centre of the building, will ultimately seat 11,000 persons. A platform ghts. To light the building with incandescent ghts and 1800-horse power. To light with 700 lamps and 700-horse power to operate r required for lighting and for the machin- yse power. In this estimate is included the 35,000-candle power each, which will light he largest single lamps ever constructed- ture, lacking no single desirable feature for- nly be about \$100,000, and the other build- nly expensive.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for seventy-five cents.]

295,090. COMPRESSED-AIR WATER-ELEVATOR.—John K. Leedy, Tuxedo Park, N. Y.
295,091. CLAMP FOR FRAMES.—Andrew Mc- Nicke, Newark, N. J.
295,092. SHIRT-IRON.—Dr. Franklin Oliver, Haverhill, Mo.

295,093. HOT-AIR AND STEAM-GENERATING FUR- nace.—Wm. Pullinger, Philadelphia, Pa.
295,094. FIRE-EXTINGUISHING.—George W. Taylor, Abner B. Cox, William Carrel Brown, and John N. Butherford, Hinton, S. C.
295,095. BRICK-MACHINE.—William L. Gregg, Phil- adelphia, Pa.

295,096. DOOR-SPRING.—Philip McAleer, Wash- ington, D. C.
295,097. COMPOSITION OF MATTER TO BE USED AS A PINE AND WATER PROTECTIVE PAINT.—Frank- lin H. Putnam, Middlebury, Ind.
295,098. WEATHER-STRIP.—Perry E. Reynolds, King City, Mo.

295,099. STONE-CHANNELING MACHINE.—William L. Saunders, Jersey City, N. J.
295,100. STONE-CUTTING MACHINE.—William L. Saunders, Jersey City, N. J.
295,101. WINDOW-SHUTTER.—Sedgewick R. Hazen, West Jersey, Ill.

295,102. COTTON-PRESS.—Cyrus David Heflin, Ro- anoke, Tex.
295,103. ADJUSTABLE CURTAIN-FIXTURE.—Chas. F. Hiley, Potomac, Pa.
295,104. FURNACE-GRATE.—Thos. Kirkwood, Chicago, Ill.

295,105. DOOR-HANGER.—William J. Lane, Pough- keepse, N. Y.
295,106. PLANK-KNIFE.—Peter McCourt, Apple- ton, Wis.
295,107. DAMPER.—Joseph W. Shaw, St. Louis, Mo.

295,108. CHIMNEY-TOP AND VENTILATOR.—John M. Sheela, Norw. Spring, Mo.
295,109. PANEL FOR WALLS, CEILINGS, ETC.—Louis C. Tully, New York, N. Y.
295,110. CIRCULAR-SAW MILL.—Robert M. Beck, Chambersburg, Pa.

295,111. SAND-CORD FASTENER.—Roswell N. Brown, Honesick Falls, N. Y.
295,112. WATER-METER.—Benjamin Fitts, Worces- ter, Mass.
295,113. SAND-HOLDER.—George E. Gorham, Al- bany, N. Y.

295,114. AUTOMATIC SAFETY APPLIANCE FOR ELEVATORS.—John Hodges, Westfield, N. J.
295,115. LIFTING JACK.—Jas. H. Humbert, Onro- quette, Wis.
295,116. DRY-CLOSET.—Thomas W. Jackson, San Francisco, Cal.

295,117. CHIMNEY-CAP AND VENTILATOR.—Wm. J. Kayser, Milwaukee, Wis.
295,118. CIRCULAR-SAW MILL.—Walter J. F. Lid- dle, Charlotte, N. C.
295,119. STONE-SHED-ROLLER.—Gideon B. Mas- sey, Mount Vernon, N. Y.

295,120. FOLDING TABLE.—John McGrath, New York, N. Y.
295,121. SAND-FASTENER.—Robert T. Murphy, Westminister, S. C.
295,122. METALLIC CEILING.—Albert Northrop, Philadelphia, Pa.

295,123. SPRING CURTAIN-ROLLER.—Walter B. Hayes, Detroit, Mich.
295,124. WINDOW-SHUTTER.—S. Eugene Parrell, Lowell, Mich.
295,125. LEXIKON.—Beruhard Albers, Concep- tion, Mo.

295,126. WIND-ENGINE.—David H. Bauman, Lan- caster, Pa.
295,127. WINDMILL.—George M. Beard, Auburn, Ind.
295,128. WELL PIPE-CUTTER.—Alfred Willard Bou- ton, New Bernardino, Cal.

295,129. WATER-LOOSE ATTACHMENT.—James W. Birkett, Brooklyn, N. Y.
295,130. SAND-HOLDER.—Gilbert O. Boligiano, Bal- timore, Md.
295,131. ATTACHMENT FOR OPERATING CISTERN- VALVES FOR WATER CLOSERS.—Daniel Burrows, Valparaiso, N. Y.

295,132. DRAWER-PULL.—Owen F. Garvey, Paw- tucket, R. I.
295,133. GLAZED METALLIC ROOF AND SKYLIGHT.—George Hayes, New York, N. Y.
295,134. SKYLIGHT.—George Hayes, New York, N. Y.

295,135. WATERPROOFING CELLARS, ETC.—John J. Schilling, New York, N. Y.
295,136. WINDOW.—William D. Smith, Chester, Pa.
295,137. COMBINED CARPENTER'S SQUARE AND LEVEL.—Eaton Steele, New Britain, Conn.

295,138. HIGHWAY-GATE FOR ELEVATORS.—Le- land Hixon, Washington, D. C.
295,139. OVERFLOW TRAP FOR WASH-BASINS, BATH-TUBS, ETC.—William T. Jobb, Buffalo, N. Y.
295,140. PAIN-KILLER.—Henry P. Kuhlmann, Mer- feld, Pa.
295,141. WINDOW-SHAPE PULL.—William Lang, Brooklyn, N. Y.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report twenty-four permits have been granted, the more impor- tant of which are the following:—
Geo. C. Herzhman, 12 two-story brick buildings, n s Biddle St., bet. Enzor St. and Holbrook Alley; and 4 two-story brick buildings, s s Streeter St., bet. Elliott and O'Donnell Sts.
Geo. Mason, three-story brick building, n e cor. Broadway and Madison St.
Shoop Butchers and Wool Pulling Association, No. 2, 4 two-story brick buildings, s s Pennsylvania Ave., bet. Robert and Laurens Sts.
Mary L. Credit, 2 three-story brick buildings, rear n e cor. Howard and Cross Sts.
Ferdinand Schultz, three-story brick building, s s William St., bet. Cross and West Sts.
Anton Stricker, three-story brick building, s s William St., bet. Cross and West Sts.
Wm. E. Bowman, two-story brick warehouse, s w cor. Eastern Ave. and Eden St.
Peter McIlvorn, 2 two-story brick buildings, s s Winter St., bet. Creek Alley and Llace St.

Boston.
BUILDING PERMITS.—Drick.—Nesbury St., No. 203, Ward 11, for J. W. Shapleigh, dwell, 2 1/2 x 5 1/2, three-story mansard; Angelo Xavier, builder.
Weston St., an apartment-house, four-story, 60' x 70', is being built for Mr. J. McNamara, from plans of J. H. Bearick, architect; James Fagan, con- tractor.

Messrs. Van Brunt & Howe are architects of the new mortuary chapel now being built at Forest Hills Cemetery; James Fagan and Greasy & Noyes, contractors.

Brooklyn.

BUILDING PERMITS.—Ross St. s s, abt. 150' x Kent Ave., two-story brick factory and mill, felt, cement, and gravel roof, \$60,000; owner, Oscar F. Hawley, cor. Bedford Ave. and Rodney St.; architect, E. F. Taylor; masons, Wm. & T. Lamb, Jr.
Butler St., s w cor. Nostrand Ave., two-story brick stable and car-house, gravel and felt roof; cost, \$10,500; owner, Atlantic Ave. R. R. Co., cor. Atlantic and Third Aves.; architect, George W. Anderson; builder, not selected.

Putnam Ave., s s, 352' x Tompkins Ave., 4 two-story brick dwells., tin roofs; cost, \$5,800; owner, etc., Robert Little, Willis Ave., New York.

Putnam Ave., s s, 100' x Reid Ave., 5 two-story brown-stone dwells., tin roofs; cost, about \$5,000 each; owner, architect and carpenter, F. C. Vrooman, 44 Gates Ave.

Union St., s s, 82' x Seventh Ave., 5 two-story brown-stone dwells., tin roofs; cost, \$10,000 each; owner, etc., Wm. Flanagan, 46 Berkeley Pl.

South Second St., No. 291, n s, 75' x Seventh St., three-story brick tenement, tin roof; cost, \$5,500; owner, Wm. H. H. Co., cor. 2d and Third Aves.; architect, A. Herber; builder, Jacob Blason.

Warren St., s s, 25' x Hoyt St., four-story brick tenement, tin roof; cost, \$10,000; owner, Ann Keagan and Margaret Newman, 175 Wyckoff St.; architect and builder, P. Williams.

Putnam Ave., s s, 352' x Marcy Ave., 2 three-story brick and brown-stone dwells., tin roofs; cost, each, \$6,500; owner, John Frazer, 16 Rochester Ave.

Putnam Ave., n s, 420' x Tompkins Ave., 2 two-story brown-stone dwells., tin roofs; cost, each, about \$5,000; owner, architect and carpenter, F. C. Vrooman, 44 Gates Ave.

Clinton St., w s, 25' x Amity St., three-story brick and brown-stone dwell., tin roof; cost, about \$7,500; owner, A. P. Brizow, 25 Clinton St.; architect, F. E. Lockwood, builders, H. D. & W. A. Southard.

Clinton St., n w cor. Amity St., three-story brown-stone dwell., tin roof; cost, about \$14,000; owner, Stewart Church, 294 Clinton St.; architect, Fred. E. Lockwood, builders, H. D. & W. A. Southard.

Louis Pl., w s, 144' x Herkimer St., 3 two-story brown-stone dwells., tin roofs; cost, each, \$5,000; owner, K. T. Pater, 216 Amity Ave.; architect, H. Phirel; builder, Charles Lorentz.

Manhattan Ave., s s, 130' x Meserole Ave., four-story frame store and tenement, felt and gravel roof; cost, \$5,800; owner, Wilson Amity, 83 Oakland St.; architect, Jas. Mulhaui; builders, Post & Walker.

Meserole St., s s, 50' x Graham Ave., four-story frame store and tenement, cost, \$7,000; owner, Fred. Schivini, 150 Meserole St.; architect, John Platte; builder, J. Ranth.

Even St., s s, 50' x Meserole St., three-story frame store and tenement, tin roof; cost, \$5,000; owner, Peter Thiesgen, 156 Even St.; architect, John Platte; builders, Jacob Ranth and Franz Herte.

Monroe St., n s, 140' x Reid Ave., 3 two-story brown-stone dwells., tin roofs; cost, each, \$5,500; owner and builder, Geo. F. Chapman, 681 Monroe St.

Grand St., No. 534, three-story brick store and tenement, tin roof; owner, Joseph Carney, 237 Howes St.; architect, John H. Garrison; builder, C. F. Canfield.

Prospect Pl., No. 200, s s, abt. 300' x Vanderbilt Ave., three-story brick dwell., tin roof; cost, \$4,500; owner, Robert Furr, architect, P. B. Rogers.

Third Pl., n s, 75' x Clinton St., 2 three-story brick dwells., tin and slate roofs; cost, each, \$6,000; owner, etc., William Taylor, 83 Third Pl.

Fourth St., n s, 100' x Even St., two-story brick store and stable, tin roof; cost, \$6,000; owner, Valentine & Co.; architect and carpenter, O. H. Doolittle; mason, S. V. Hyer.

Madison St., s s, 60' x Tompkins Ave., 2 two-story brown-stone dwells., tin roofs; cost, each, \$1,500; owner, etc., Chas. Labill, 303 Herkimer St.

Esplanade St., s s, 80' x Marcy Ave., 4 three-story frame tenements, tin roofs; cost, each, \$4,000; owner, Margaret Mulvihill, 730 Van Buren St.; architect, John Herr; builder, Nicholas Mulvihill.

Greenwich St., s s, 45' x three-story frame tenement, gravel roof; cost, \$1,000; owner, Daniel Dunn, on premises; architect, John P. Lee; builders, Gately & Smith, and James Dolg, Jr.

Locust St., Nos. 14 and 16, s s, 125' x Broadway, 2 three-story frame tenements, tin roofs; cost, each, \$4,500; owner, Bernhard Mueller, 23 Scholes St.; architect, Th. Engelhardt; builder, Wm. Maske.

Bond St., w s, 120' x Union St., three-story brick tenement, tin roof; cost, \$1,000; owner, Michael Hillan, 230 Bond St.; architect, Chas. E. Hebbard.

Manhattan Ave., s s, 75' x Nassau Ave., three-story frame store and tenement, gravel roof; cost, \$3,500; owner, Mary Marks, 121 Manhattan Ave.; architect, —; Corroy; builders, Randall & Miller.

Clason Ave., No. 92, w s, 170' x Flushing Ave., three-story frame tenement, tin roof; cost, \$3,500; owner and carpenter, George Froy, 220 West Third-Street St., New York; architect, Richard Von Lohu; builder, C. Dahnen.

Morise St., n s, abt. 200' x Central Ave., 3 three-story frame tenements, tin roofs; cost, \$4,500; owner and architect, W. Walli, cor. Central Ave. and Sylvie St.; builders, J. Armandinger and John Kueger.

Greene Ave., n s, 40' x Waverly Ave., 3 three-story brown-stone dwells., tin roofs; cost, each, \$7,500; owner, George Harvey, Washington Ave.; architect and builder, H. E. Fickett.

Lee Ave., No. 193, s s, 80' x Rutledge St., two-story brown-stone dwell., tin roof; cost, \$5,500; owner and architect, F. Weber; builder, —; Metcalf and John J. Brennan.

Broadway, n e cor. Van Buren St., 3 three-story stores and flats, tin roofs; cost, \$5,200; owner and carpenter, S. W. Post, 815 Van Buren St.; mason, A. A. Farlon.

Sixth Ave., n e cor. Seventeenth St., three-story frame store and dwell., tin roof; cost, \$4,500; owner, Frederick Schwartz, Atlantic Ave., w s cor. Third Ave.; architect, W. H. Wirth; builders, Powderly & Murphy.

Quincy St., s s, 216' x Reid Ave., 3 two-story brown-stone dwells., tin roofs; cost, each, \$1,000; owner, A. S. Walsh, Madison St., near Bayview; architect, A. Miller.

Evergreen Ave., n e cor. Harmon St., three-story frame store and dwell., tin roof; cost, \$1,000; owners, architects and builders, Cosine & Gascogne, 307 Evergreen Ave.

Willoughby Ave., n e cor. Throop Ave., 2 three-story brown-stone dwells., tin roofs; owner, Jos. Henderson, 633 Willoughby Ave.; architect, Amzi Hill, builder, S. O. Phillips.

ALTERATIONS.—Fulton St., No. 1155, three-story brick extension, tin roof, front and rear walls altered, etc.; cost, \$7,000; owner, George Hermann, Bedford Ave., near Gates Ave.; architect, George P. Chap- pel; builders, Van Pelt & Pierce, and Myron C. Rush.

Bridge St., No. 407, three-story brick extension, gravel and tin roof, front and rear walls altered, etc.; also interior alterations; cost, \$8,000; owner, Henry Muge, 41 Bond St.; architect, M. J. Morrill; builders, M. J. Reynolds & Son, and O. K. Buckley.

Henry St., No. 331, add two stories, front, rear, and interior altered; cost, \$6,000; owner, K. H. Lud- wig, 312 Hicks St.; architect, C. Weymer.

Ninth St., n s, 203' x Gowanus Canal, chimney to be 110'; cost, \$4,000; owner, New York Tarrar Co., Ninth St. and Gowanus Canal; builders, Burton & Nichols.

Wilcox St., No. 91, one-story brick extension, interior alterations; cost, \$5,000; owner, Thomas S. Moore, 102 Broadway, New York; architect, W. B. Tubby; builder, F. D. Norris.

ALSO.—No. 55-567, raised 2' brick walls basement, rear wall rebuilt, cost, total, \$4,000; owners, Flier Bros.; builder, W. H. Rhodenbeck.

Chicago.
BUILDING PERMITS.—W. D. Kerfoot & Co., bonds and building contracts; cost, \$10,000.
G. Turney, two-story store and dwell., 222 Wash- ington St.; cost, \$3,000.

M. M. Rothchild, 3 three-story dwells., Thirty-second St. and Indiana Ave.; cost, \$12,000; architects, Adler & Sullivan.

G. C. Hutchinson, two-story dwell., 334 Ashland Ave.; cost, \$5,000; architect, L. G. Halberg; build- ers, Geo. Lohman & Co.

Geo. S. Bullock, three-story stores and flats, 283 and 285 Ogden Ave.; cost, \$10,000; architect, M. C. Deau; builder, J. Moran.

S. Klager, three-story store and flats, 1132 Milwau- kee Ave.; cost, \$7,700.

M. Ulrich, two-story dwell., 585 LaSalle Ave.; cost, \$6,000; architect, E. Bauman; architect, C. Prussing. Penn. Coal Co., shelter-shed, Twenty-second St. and Chicago River; cost, \$10,000.

H. Shutz, two-story dwell., 938 Ashland Ave.; cost, \$3,000; architect, A. Chivert.

H. Shutz, two-story dwell., 8 South Elizabeth St.; cost, \$3,000; architect, A. Smith; builder, F. Hau- son.

Geo. Bullen, four-story malt-kiln, 307 and 309 Michi- gan St.; cost, \$30,000; architects, Burling & White- house; builders, Rosler & Winkler.

Ph. Krauth, two-story dwell., 166 Wesson St.; cost, \$3,200.

Wm. Philo, 2 three-story flats, 811-815 Halsted St.; cost, \$7,000; architect, H. T. Kley.

Mrs. N. Halsted, 3 two-story dwells., North Park Ave.; cost, \$12,000; architects, Adler & Sullivan; builder, J. Pedgrift.

Mrs. A. Kiley, two-story dwell., 417 Thirty-first St.; cost, \$3,200.

F. W. Morrison, 11 three-story dwells., 192 to 208 Sebor St.; cost, \$40,000.

Wm. Henderson, two-story dwell., 467 West Con- gress St.; cost, \$6,500; architect, N. S. Patton.

A. J. Snel, four-story store and flats, 21 and 21 West Madison St.; cost, \$10,000; architect, W. H. Drake.

S. P. Farley, two-story stores and flats, 3452 and 3454 Indiana St.; cost, \$3,500; architect, P. L. Char- ley; builder, J. Cox.

F. Cummings, four-story flats, 333 North Franklin St.; cost, \$8,000; architect, P. L. Charley; builder, J. Foley.

E. J. Lehmann, three-story store and flats, 885 and 887 North Clark St.; cost, \$12,000; architects, Treat & Foltz.

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W. H. Harrison, two-story cottage, 917 and 919
Hoyne Ave.; cost, \$3,000; architect, H. Clay.
R. M. Prendergast, three-story dwell., 7 Boston
Ave.; cost, \$7,000; architect, J. V. Waukaler.
A. Bullard, three-story dwell., 1510 to 1516 Michi-
gan Ave.; cost, \$20,000; architect, Roman.
Chicago North Division Railway Co., two-story
stable, Ogden Ave.; cost, \$10,000.
P. J. Conrath, two-story store and dwell., 491 Mil-
waukee Ave.; cost, \$4,000.
H. W. Jackson, three-story flats, 22 to 26 North
Ada St.; cost, \$10,000; architect, L. Berg.
Turner & Hoid, one-and-one-half-story cottages,
Jalisco St.; cost, \$7,000.
S. Ridgely, three-story flats, 304 and 306 Leavitt St.;
cost, \$10,000; architect and builder, J. W. Cassel.
C. Rick, two-story dwell., 2744 Shields Ave.; cost,
\$7,000.
W. D. Kerfoot & Co., one-and-one-half-story cot-
tages, 102-122 Iowa St.; cost, \$10,000.
Ph. Stemmiller, three-story dwell., 763 North Clark
St.; cost, \$11,000; architect, J. H. Huber; builder,
L. Weick.
John Gillen, three-story cottages, 3710-20-26 Butler
St.; cost, \$3,000.
Mrs. A. C. Allen, three-story dwell., 15 Walton St.;
cost, \$7,000; architect, W. L. B. Jenney; builder, R.
E. McKay.
J. H. Lehner, three-story dwell., 779 North Clark
St.; cost, \$5,000; architects, Pentecost & Leimbach;
builder, Wm. Heft.
J. Hase, four-story store and dwell., 1118 Milwau-
kee Ave.; cost, \$3,000; architect, H. Clay.
C. W. Blaisdell, two-story dwell., 311 LaSalle Ave.;
cost, \$9,000; J. L. Halberg; builder, L. Martensen.
C. E. Hoyer, three-story dwell., 307 Lincoln Ave.;
cost, \$1,500; architect, John Brubns; builder, A.
Hernoway.
A. Hunske, four-story factory, 100-104 West St.;
cost, \$6,000; architect and builder, A. Hunske.
J. Krabower, three-story store and dwell., 644-646
Blue Island Avenue; cost, \$13,000; architect and
builder, J. Krabower.
Conrad Seipp, three-story store and dwell., Thirty-
first St. and Cottage Grove Ave.; cost, \$3,000; ar-
chitects, Hauser & Hill; builder, G. Schneider.
F. Muehler, three-story dwell., Oak St.; cost, \$6,
000.
P. Nicholson, three-story flats, 345 West Adams St.;
cost, \$7,500; architects, Furst & Rudolph; builders,
Mueller & Scheel.
H. Copeland, two-story dwell., 597 West Harrison
St.; cost, \$4,000.
T. Goodwin, three-story flats, 12 South May St.;
cost, \$6,000.
M. Holander, two-story flats, 201 North Carpenter
St.; cost, \$3,000.
S. Provost, two-story flats, 622 Taylor St.; cost, \$5,
000; architect, Wm. Thomas.
W. H. Maher, two-story flats, 616 Taylor St.; cost,
\$5,000; architect, Wm. Thomas; builders, Maher &
Provost.
Spellman Bros., three-story factory, 91-101 Erie St.;
cost, \$5,500; architect, Geo. S. Spier.
A. McVally, two-story dwell., 346-348 North Park
Ave.; cost, \$18,000; architect, E. Baumann.
S. E. Gross & Co., one-story cottages, Thomas St.;
cost, \$5,000.
W. Rosenthal, two-story dwell., 309 Division St.;
cost, \$5,000.
H. N. Brown, three-story dwell., 84 Walton Pl.;
cost, \$3,000; builder, Wm. Heft.
H. B. Foss, three-story flat and dwell., 459-460 West
Monroe St.; cost, \$50,000; architect, J. J. Flinders;
builder, J. Mountain.
J. Richardson, three-story store and flat, 127 Har-
bert St.; cost, \$5,500; architect, J. Brahms; builder,
M. Chippen.
B. D. & W. N. Elendrath, four-story addition to
factory, Dix St.; cost, \$10,000; architects, Furst &
Rudolph; builder, C. J. Muller.
J. Colbraue, two-story store-house, 3123 State St.;
cost, \$4,000.
C. Whidden, two-story dwell., 325 West Thirtieth
St.; cost, \$4,000.
J. Schumacher, two-story store and dwell., 470 Centra
Ave.; cost, \$1,000.
Wm. Myrick, two-story dwell., Groveland, Park
Ave.; cost, \$12,000; architects, Cobb & Frost.
C. Ellard, three-story flats, 97 Forquer St.; cost,
\$4,000.
J. Lomsky, three-story flats, 670 South Jefferson
St.; cost, \$4,500.

Cincinnati.

Houses.—Dr. H. A. Smith has let contracts for a four-
story house on West Eighth St. Front of pressed-
brick and cut-stone; cost about \$14,000; S. E. Dos
Jardins, architect.
Plans have just been prepared by S. E. Dos Jar-
dins for a frame dwell. for F. G. Cross, Esq., to cost
about \$7,000; and for a brick house for Prof. H. T.
Baily, to cost about \$8,000; both to be erected on
Walnut Hills.
Grand Rapids, Mich.
BANK BUILDING.—Fourth National Bank Building,
red-pressed brick and stone; cost, about \$15,000; W.
G. Robinson, architect, Grand Rapids.
WARRIORS.—T. D. Tibbitt, three-story brick war-
house; cost, about \$25,000; W. G. Robinson, ar-
chitect.
H. J. Hollister, three-story brick block; cost, about
\$25,000; W. G. Robinson, architect.
Houses.—S. A. Hart, brick dwell.; cost, \$6,200; S. J.
Osgood, architect, Grand Rapids.
Henry Walsh, wood dwell.; cost, \$5,800; S. J. O-
sgood, architect.
F. B. Farmer, wood dwell.; cost, about \$4,500;
W. G. Robinson, architect.
L. F. Owen, wood dwell.; cost, \$4,000.
Geo. Kortlander, wood dwell.; cost, \$3,500.
H. Thum, wood dwell.; cost, \$3,000.
E. W. Ford, wood dwell.; cost, \$1,000.
Mrs. Sarah Sanderson, 2 wood dwell.; one cost,
\$3,000; one cost, \$2,000.
W. N. Clark, wood dwell.; cost, \$4,000.
D. S. Hopkins, architect for the above, Grand
Rapids, Mich.

STORES.—Mr. Norris, block of three-story, three-story;
cost, about \$15,000; S. J. Osgood, architect, Grand
Rapids.

New York.

Houses.—For H. H. Coburn, 3 three-story brown-stone
houses, 161-163 & 165, are to be built on the s. s. of One
Hundred and Twenty-ninth St., 157' w. of Seventh
Ave., at a cost of \$35,000, from designs of Messrs.
Cleveland & Putzel.
On the s. s. of Eighty-sixth St., between Madison
and Park Aves., 2 houses, 147' x 55' and 149' x 55', are
to be built, with brick, brown-stone and terra-cotta
fronts, for Judge Pearson and daughter, at a cost of
\$42,000, from designs of Mr. Wm. Baker.
On the s. s. of Seventy-second St., 150' e. of Madison
Ave., 2 four-story and basement brown-stone houses,
23' x 78' each, are to be built for Messrs. Joseph and
Charles Lieberman, at a cost of \$100,000, from de-
signs of Mr. Alfred Tucker.
For Willard Parker, a four-story brick and brown-
stone residence, 27' x 80', is to be built at No. 11
West Eighteenth St., to cost about \$35,000, from de-
signs of Prof. E. D. Lindsay.
Mr. Geo. C. Edgar will build, on the n. s. of Sev-
entieth St., 100' w. of Ninth Ave., 4 four-story brown-
stone houses, 18' 6" frontages, at a cost of about
\$60,000.
Mr. P. T. Camp has drawn plans for 2 four-story
brown-stone houses, 22' 6" frontages, to be built for Mr.
John Livingston, on the s. s. of Seventy-first St., 60' w.
of Lexington Ave.
STORES.—On the s. w. cor. of Houston St. and the
Bovary, 3 stores, 40' frontage, are to be erected for
Mr. Wm. Astor, from designs of Mr. H. C. de Land.
ARCADES.—H. H. Hays, 2 two-story brick and brown-stone
apartment-houses, 37' 6" x 50', five stories high, are to
be built by Bernard Spaulding, on the n. e. of Fif-
tieth St., between Madison and Park Aves., at a
cost of \$100,000, from designs of Mr. Geo. E. Har-
ding.
For Mr. E. R. Fielding, 3 brick and stone apart-
ment-houses, 22' x 29', 25' x 52', and 25' x 48', are to
be built on the cor. of Second
Ave. and Twenty-sixth St., from designs of Messrs.
C. W. Ronney & Co.
BUILDINGS.—Messrs. Greenwell St., Nos. 232 and
234, two-story brick store and lots, tin roof; cost,
\$20,000; owner, Laura V. Rhineclander, 6 West Thirty-
second St.; architect, G. H. Post.
Eleventh Ave., s. e. cor. Thirty-eighth St., 4 five-story
brick store and tenements, tin roof; cost, each,
\$10,000; owner, David Stevenson, Jr., 224 West For-
ty-sixth St.; architect, J. M. Forester.
Ludlow St., s. w. cor. Hester St., six-story brick tenement,
tin roof, cost, \$21,000; owner, H. Waters, 266
Bovary; architect, W. Graul.
Hester St., s. e. cor. Ludlow St., six-story brick tenement,
tin roof, cost, \$13,000; owner, H. Waters, 266
Bovary; architect, W. Graul.
Madison St., No. 83, five-story brick store and tenement,
tin roof; cost, \$20,000; owner, Rosa White,
43 East One Hundred and Nineteenth St.; architect,
J. M. Dunn; builders, Grissler & Pausel.
Great Jones St., No. 41, five-story brick store and
tenement, tin roof; cost, \$18,000; owner, Edward G.
Fiedler, trustee, Easttown, N. J.; architect, J. M.
Dunn.
Seventh Ave., n. e. cor. One Hundred and Twenty-
second St., 8 four-story brown-stone dwellings, tin roofs;
cost, each, \$25,000, and others, each, \$15,000; owner,
John W. Smith, 31 West One Hundred and Thirty-
fourth St.; architect, Geo. B. Poelman.
Fourth Ave., n. e. cor. Ninety-first St., four-story
brown-stone store and dwell., tin roof; cost, \$15,000;
owner, Susan Sullivan, 1365 Lexington Ave.; archi-
tect, J. Sullivan.
West Thirty-third St., No. 418, five-story brown-
stone tenement, tin roof, cost, \$10,000; owner, Jas.
McDonald, 446 West Thirty-third St.; architects,
N. Le Brun & Son; builder, D. Kenney.
Eight Ave., n. e. cor. One Hundred and Twenty-
ninth St., five-story brick tenement, tin roof; owner,
Henry O'Neill, 322 West Fifty-seventh St.; archi-
tect, M. C. Merritt.
Eleventh Ave., s. e. cor. One Hundred and Twenty-
ninth St., 4 five-story brick tenements, tin roofs;
owner and architect, same as last.
Ninety-first St., n. s. e. of Madison Ave., 3 three-story
brown-stone dwellings, tin roofs; cost, each, \$15,000;
owners, Kneeline and Elizabeth Johnson, 443 and
445 East Eighty-fourth St.; architects, A. B. Ogden
& Son.
First Ave., s. e. cor. Seventy-second St., 5 five-story
brick tenements, tin roofs; cost, each, \$18,000;
owner, A. M. Treacy, 232 West One Hundred and
Twenty-fourth St.; architect, R. Rosenstock; build-
er, T. Van Loan.
Tenth Ave., s. e. extending from One Hundred and
Twenty-eighth St. to One Hundred and Twenty-
ninth St., iron and brick depot, with a two-story
office-building; cost, \$200,000; owners, Third Ave.
Railroad Co., Third Ave. R. R. Depot; architect,
P. F. Schoon; builder, I. A. Hopper.
Third Ave., s. w. cor. One Hundred and Seventh
St., four-story brick store and tenement, tin roof;
cost, \$14,000; owner, Thomas McLaus, 709 Lexing-
ton Ave.; architect, J. H. Valentine.
Third Ave., e. s. e. 119' x One Hundred and Sev-
enth St., five-story brick store and tenement, tin
roof; cost, each, \$5,000; owner and architect, same
as last.
One Hundred and Thirty-sixth St., s. s. 78' x Sixth
Ave., 3 two-story brown-stone dwellings, tin roofs, cost,
each, \$11,000; owner, Robert G. Hargraves, One Hun-
dred and Sixty-ninth St., cor. Mott Ave.; architect,
J. H. Valentine.
Ave., s. e. cor. Seventy-fourth St., five-story brick
tenement, tin roof; cost, \$18,000; owner, Casper
Prozmann, 789 Fourth Ave.; architects, Bettinger
& Lange.
One Hundred and Fifty-fifth St., s. s. 407' x Third
Ave., three-story frame tenement, tin roof; cost,
\$4,800; owner, John Hennesberger, 643 East One
Hundred and Fifty-second St.; architect, William
Kusche.
West Twelfth St., Nos. 175 and 177, 2 five-story brick
tenements, tin roofs; cost, each, \$8,000; owner, John
E. D. Devellin, foot West One Hundred and Thirty-

eight St.; architect, C. F. Ridder, Jr.; builder, R.
Hart.
Levin St., Nos. 179, 181 and 183, six-story brick factory,
gravel roof; cost, \$5,000; owner, Simon Strauss;
Fifth St., architect, Chas. R. R. R. R.; builders,
Peter Tostert's Sons and P. A. Swedlund.
Dehusses St., Nos. 4, 6, 8 and 10, one-story brick
buildings, tin roofs; total cost, \$12,000; owner, S. V.
R. Cruger, Comptroller of Trinity Church, 112 East
Thirty-fifth St.; builder, L. H. Williams.
Fifty-second St., n. s. 277' x Sixth Ave., 3 three-story
brick and brown-stone stables, tin roofs; cost, each,
\$10,000; owner, Robert McCafferty, 814 Fourth Ave.;
architects and builders, McCafferty & Buckley.
East Seventy-sixth St., No. 404, four-story brick
dwell., three families, tin roof; cost, \$9,000; owner,
Henry Palermann, First Ave., s. e. cor. Seventy-sixth
St.; architect, Jobst Hoffmann.
Eighty-first St., n. s. 231' 6" x First Ave., 4 five-story
brick tenements, tin roofs; cost, total, \$45,000; owner,
Henry Palermann, First Ave., s. e. cor. Seventy-sixth
St.; architect, J. Kasner.
Fiftieth St., n. s. 250' x Madison Ave., 2 five-story
brick flats, tin roofs; cost, each, \$10,000; owner, Ber-
nard Spaulding, 150 East Forty-sixth St.; architect,
Geo. E. Harding.
One Hundred and Second St., s. s. 135' x Third Ave.,
five-story brown-stone front tenement, tin roof; cost,
\$15,000; owner, James Roache, 170 East One Hun-
dred and Second St.; architects, A. R. Ogden & Son.
West Seventeenth St., Nos. 321 and 323, 2 two-story
brick flats, tin roofs; cost, each, \$24,000; owner, Geo.
Shepherd, 322 West Twenty-second St.; architect,
Jos. M. Dunn.
One Hundred and Twenty-fourth St., s. s. 100' x Elton
Ave., three-story frame tenement, tin roof; cost,
\$15,000; owner, John A. Mueller, 101 East One Hun-
dred and Fifty-fourth St.; architect, Wm. Kusche.
East Thirtieth St., No. 536, five-story brick tenement,
tin roof; cost, \$12,000; owner, Albert Stahl-
man, 63 East Thirtieth St.; builder, E. Koenig.
Seventh Ave., s. e. cor. One Hundred and Twenty-
sixth St., four-story brown-stone front tenement, tin
roof; cost, \$25,000; owner, Chas. Hatcher, 177
Third Ave.; architect and Twenty-sixth St., architect, St.
V. B. Verdon.
West Twenty-fourth St., Nos. 620 and 622, two-story
brick factory, gravel roof; cost, \$5,000; owner, S. A. R.
Myers, 431 West Twenty-second St.; architect, Geo.
H. Hudling.
One Hundred and Sixty-eighth St., n. w. cor. Union
Ave., three-story frame dwell. and one-and-one-half-
story frame stable, tin roofs; cost, \$3,500; owner,
Hugo Duvet, 2167 Third Ave.; architect, Henry Pier-
ling.
Wall St., Nos. 71 and 73, part seven and part eight
story brick and stone office-building, tin roof; cost,
\$20,000; owner, Eagle Fire Co., A. J. Clinton, Presi-
dent, 311 East One Hundred and Twenty-fifth St.;
architect, G. K. Harney; builders, Marc Edlitz and
G. T. Mackey.
East Nineteenth St., Nos. 726-732, two-story brick
factory, gravel roof; cost, \$9,000; owners, Jacob and
George Lohrhard, 3 Mercer St.; architect, Henry
Miller; builders, Wm. McKean and Henry Miller.
Eighty-second St., s. s. 139' 11" x Ninth Ave., 5
four-story brown-stone dwellings, tin roofs; cost, each,
\$15,000; owner, Samuel Colcord, 400 West Seventy-
ninth St.; architect, H. L. Haas.

Philadelphia.

REDEMPTORIST HOME.—The corner-stone of the new
Home of the Redeptorist Fathers, cor. Diamond
and Hancock Sts., was laid May 11. The building is
to cost \$80,000.
BURNING PRISONS.—Thirty-seventh St., cor. Chest-
nut St., three-story church, 6' 6" x 80'; three-story
chapel, 40' x 20'; and three-story parsonage, 30' x 30';
W. D. Fennuth.
Eight St., cor. Huntington St., 5 two-and-three-
story dwellings, 12' x 42'; Jno. Loughran, contractor.
Rush St., s. e. of Amber St., two-story dwell., 17' x 40';
Chas. Hoober, owner.
Market St., Germantown, chapel, 62' x 70'; Wm.
Garvin, contractor.
Wayne St., n. of Mannheim St. (Germantown), 2
three-story dwellings, 20' x 60'; Wm. Garvin, contractor.
Orthodox St., above Frankford Ave., three-story
dwell., 17' x 24'; Chas. E. Deal, contractor.
Edgemont St., n. of Somerset St., 3 two-story dwellings,
18' x 45'; Miller & Slater, contractors.
Twenty-seventh St., n. of York St., three-story
dwell. and 2 two-story dwellings, 18' x 40'; Wm. F. Al-
brecht, contractor.
Twenty-first St., cor. Fitzwater St., three-story
brick building, 10' x 40'; Thos. McCoull, contractor.
Sixty-first St., s. of Baltimore Ave., two-story dwell.,
10' x 45'; Geo. Robinson, owner.
Jefferson St., s. of Twenty-fifth St., 12 two-story
dwellings, and three-story store and dwell., 15' x 40';
Jno. Sharp, owner.
Wright St., e. of Twenty-fifth St., two-story dwell.,
27' x 55'; Jno. Sharp, owner.
Hazel St., above Oxford St., two-story stable, 18' x
65'; J. S. Riley, owner.
Harrison St., cor. Tiersan St., Sunday-school
building, 27' x 70'; W. Thompson & Bro.
Tenth St., between Price and Centre Sts., 2 three-
story dwellings, 10' x 20'; Jas. K. Kinner, owner.
Reese St., above Somerset St., 2 two-story dwellings, 17'
x 45'; W. Armstrong, owner.
Salmon St., between Ann and Nesh Sts., two-story
dwell., 16' x 40'; Jacob Ziegler, contractor.
Twenty-eighth St., cor. Hinton St., 8 three-story and
2 two-story dwellings, 15' x 44'; Chas. T. Hall, owner.
Pear St., w. of Sixty-second St., two-story dwell.,
16' x 38'; Chas. Ristine, contractor.
Bloss St., below Ridge Ave., two-story dwell., 18' x
34'; Chas. Lightcap, owner.
Fifth St., cor. Girard Ave., four-story warehouse,
30' x 80'; Thos. McCarty, contractor.
Fortieth St., e. s. n. of Filbert St., 2 three-story
houses, 18' x 47'; Jno. A. Palmer, contractor.

Continued on page 3, Supplement.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

299,544. PORTABLE DERRICK.—Harrie Austin and Ives Seville, Oakland, Cal.
299,541. FIRE-ESCAPE.—Louis Blessing, Jackson, Mich.
299,519. WINDOW-GUARD.—George W. Clark, Brooklyn, N. Y.
299,525. WINDOW-SASH HOLDER.—John E. Dohen, Charleston, S. C.
299,543. AUTOMATIC SAFETY-BRAKE FOR ELEVATORS.—Chas. A. Hoffnagle, Vergennes, Vt.
299,544. SAFE-GUARD FOR ELEVATORS.—Chas. A. Hoffnagle, Vergennes, Vt.
299,516. ELECTRIC FIRE-ALARM.—Geo. E. Hotenden and Edwin R. Hotenden, Grand Rapids, Mich.
299,545. PASSENGER OR OTHER ELEVATOR.—Merrill N. Hutchinson, New York, N. Y.
299,571. MANUFACTURE OF ENAMELLED BRICK.—Chas. Newton, Council Bluffs, Iowa.
299,501. RUBBER AND PULP MACHINE.—John George Stadler, Rothenbach, Bavaria, Germany.
299,595. FIRE-ESCAPE.—James Taylor, New York, N. Y.
299,598. MODE OF CONSTRUCTING FRAME HOUSES, Edsell Tolman, Hinsdale, Ill.
299,605. WATER-GLASS CONNECTION.—Henry C. Weeden, Boston, Mass.
299,606. FLUISING APPARATUS FOR WATER-CHIMNEYS, ET.—Henry C. Weeden, Boston, Mass.
299,628. CHIMNEY-CAP.—Henry S. Dickinson, Jersey City, N. J.
299,635. DOOR-KNOB ATTACHMENT.—Wm. Henry Filini, Nahua, N. H.
299,630. CARPENTER'S GAUGE.—George S. Forrest, Concord, N. H.
299,636. PNEUMATIC BELL-RINGING APPARATUS.—Robert P. Garrod, Norristown, Pa.
299,646. ELEVATOR.—Merrill N. Hutchinson, New York, N. Y.
299,659. AUTOMATIC BALL SAFETY-FAUCET.—Harry C. Montgomery, Cleveland, O.
299,671. LOCK-BOLT.—Henry C. Neer, Park Ridge, N. J.
299,712. FASTENER FOR MEETING-RAILS OF SASHES.—Robert Adams, Southwark, County of Surrey, Eng.
299,719. SASH-FASTENER.—George S. Barnes, Boston, Mass.
299,722. CALIPERS.—Stephen H. Bellows, New York, N. Y.
299,742. DOOR-SECURE, ETC.—Edward P. Conner, Santa Rosa, Cal.
299,764. FIRE-ESCAPE.—James Howard Ellis, Myers Wilson, and Francis Tanser, Walkerville, Ontario, Can.
299,776. CLAMP.—Jean Grand, Caudobec-les-Elbeuf, France.
299,792. WATER-CLOSET AND PRESERVING THE SEALS OF THE TRAP-TIGHTENERS.—James F. Hyde, New York, N. Y.
299,805. LOCK.—John J. Knapp, Richland, W. Va.
299,816. MANUFACTURE OF ARTIFICIAL STONE.—Bernard Lande, New York, N. Y.
299,811. TRACK FOR BARN-DOOR HANGERS.—John H. Lawrence, Sterling, Ill.
299,820. FIRE-PROOF CHILING.—Henry Maurer, New York, N. Y.
299,826. SCHOOL DESK AND SEAT.—Charles A. Merrill, Grand Rapids, Mich.
299,833. FIRE-ESCAPE.—Jordan L. Mott, Jr., New York, N. Y.
299,842. ROOFING-SLATE FASTENING.—Bernard M. O'Neill, St. Louis, Mo.
299,843. GAUGE.—Chas. B. Osborn, Canadaigua, N. Y.
299,850. FIRE-ESCAPE.—Henry Rensch, Quincy, Ill.
299,712. CUTTING-PLIERS.—Elisha Stevens, Middletown, Conn.
299,861. FURNACE.—John A. Topf, Edward S. Cross, Wm. S. Cox, and John A. McCollum, Elyria, Ohio.
299,868. WATER-CLOSET VALVE.—Peter White, St. Louis, Mo.
299,869. VISE.—William M. Whiting, Elizabeth, N. J.
299,903. CONDUCTOR FOR ASHES, GARBAGE, ETC.—James Berry, Buffalo, N. Y.
299,924. SKATING-RINK FLOOR.—George Cole Harkin, Salt Lake City, Utah.
299,925. AUXILIARY OVERFLOW FOR LAVATORIES.—Patrick Harvey, Chicago, Ill.
299,927. PLANK.—Samuel E. Hilles, Cincinnati, O.
299,930. HYDRAULIC ELEVATOR.—George Q. McGown, Golden City, Mo.
10,493. SASH-FASTENER (Belgian).—Ewell B. Attwell, Leesburg, Va.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report twenty-seven permits have been granted, the more important of which are the following:—
Ed. J. Green Trapp, 2 three-story brick buildings, n s Cross St., w of Interstate Ave.

Collett & Stamp, 16 two-story brick buildings, n s Higher St., com. n w cor. Artye Ave.
Theo. Hamz, three-story brick building, in rear n w cor. Lexington and Chateaufort sts.
Greenmount Ave. M. E. Church, stone church, 40' x 65', n w cor. Chase and McKim Sts.
W. F. Hoising, three-story brick building, s s Hancock St., n of Fort Ave.
John Mason, 33 two-story brick buildings, n s Eagle St., bet. Washington and Chester Sts.
Geo. H. Striebig, 4 two-story brick buildings, s s 20' alley, n of Mulberry St., bet. Mount St. and Vincent Alley.
Gudrun Schmidt, three-story brick building, w s Fremont St., bet. Ridgely St. and Burgunder Alley.
Geo. W. Moke, Jr., 4 two-story brick buildings, s s Vincent Alley, s of Cole St.
M. Z. Hammon, 21 two-story brick buildings, w s Washington Ave., com. cor. Wooster St.; and 5 two-story brick buildings, s s Wooster St., 40' from Washington Ave.
Edward Freesburger, 2 three-story brick buildings, w s Riverside Ave., bet. 1st and 2nd Sts. and Fort Ave.
J. B. Irvine, 10 three-story brick buildings, w s Druid Hill Ave., n of Lauros St.
ANDERSON AND ALLEN, ARCHT.—E. F. Baldwin, architect, has prepared drawings for a three-story and basement brick wing, 30' x 60', to St. Vincent's Infirmary, cor. Townsend and Division Sts., to cost, \$125,000; F. Adams, builder. He has also prepared drawings for Messrs. Keyser Bros., for the improvement of their property, cor. German and Calvert Sts., to cost \$20,000.

Boston.

MONTHLY REPORT.—During the past month 121 permits for wooden structures and 47 for brick have been issued at the office of the Inspector of Buildings.
BUILDING PERMITS.—*Brick.*—Chester St., No. 21, Ward 6, for J. C. & E. A. Loud, tenement, 30' and 43' x 40' and 65', four-story flat.
East Broadway, Nos. 331-342, Ward 11, for James Collins, 6 dwellings, 12' x 30', three-story flat.
Camden St., near Huntington Ave., Ward 22, for Trustees Children's Hospital, mechanical building, 12' x 15', one-story; G. W. & F. Smith, builders.
Old Harbor St., No. 70, to J. Thomas Park, No. 57, Ward 14, for Henry B. Stratton, dwell., 30' x 27' and 40', four-story flat; H. B. Stratton, builder.
Newbury St., No. 260, cor. Gloucester St., Ward 11, for Silas M. May, dwell., 22' x 27' and 42' 6", three-story mansard; Silas C. Merrill, builder.
Canisay St., No. 265, Ward 7, for Nathan Robbins, storehouse, 20' x 85', five-story flat; John Kelley, builder.
Eustis St., No. 184, cor. Adams St., Ward 20, for John F. Nichols, family-hotel, 41' 6" x 51' 11" and 71', four-story flat; A. D. Gould, builder.
Forest Hills Ave., No. 23, for Forest Hills Cemetery corporation, chapel and office, 34' 4" and 30' 4" 61' 2", one-story pitch; James Fagan, builder.
Yarmouth St., Ward 11, for C. A. Fitzgerald, family-hotel, 22' x 94', four-story flat; Hewitt & Webster, builders.
Wood, Adams St., near Everett St., Ward 20, for F. F. and Abby A. Monte, 2 dwellings, 11' 6" x 15', and 19' 6" x 30', two-story pitch.
Gilbert St., near Boyer St., Ward 23, for Joseph Handwerk, 3 dwellings, 21' x 34', three-story flat; Joseph Hammerle, builder.
Spring Park Ave., opposite Enfield St., Ward 23, for Daniel Brevoort, 2 dwellings, 14' and 10' x 39', three-story pitch; John B. Wester, builder.
Rand St., No. 12, Ward 24, for Matthew Scullion, dwell., 20' x 50', three-story flat; H. J. Bartlett, builder.
Bronzie St., No. 13, Ward 22, for Ferdinand Kinselo, dwell., 24' x 33', three-story pitch.
Mayoria St., No. 46, Ward 20, for A. W. Wright, dwell., 22' and 28' x 40', three-story pitch; Chas. E. Currier, builder.
Freble St., No. 34, Ward 15, for Mrs. Mary A. F. Gould, dwell., 20' x 30', three-story flat; J. E. Spow, builder.
East Third St., No. 791, Ward 14, J. E. Kaleher, dwell., 10' 6" x 20' 6" and 21' x 30', two-story flat; Geo. Melboval, builder.
Satin St., No. 5, Ward 21, for Robert M. Goode, dwell., 20' and 20' x 44', two-story pitch; Wm. Morris, builder.
Centre St., cor. Parker St., Ward 22, for Sampson Holland, 2 dwellings and store, 22' x 61' and 69', three-story flat.
Central Ave., near Washington St., Ward 23, for Cornelius Houghton, dwell., 13' x 17' and 60' x 100', two-story pitch; Gerrit Baumbick, builder.
Heath Ave., near Heath Pl., Ward 22, for Rudolph Dohm, dwell., 23' x 33', three-story flat; Thos. Clunse, builder.
New York St., cor. Elizabeth St., Ward 24, for Horace S. Powell, dwell., 19' 6" and 29' 4" x 36' 4", two-story pitch; E. F. Moulton, builder.
Telegraph St., No. 64, Ward 15, for J. A. Allen, dwell., 10' x 19' and 22' x 38', three-story mansard; J. A. Allen, builder.
East Fourth St., Nos. 640 and 631, Ward 14, for Howard Clapp, 2 dwellings, 30' x 43', three-story flat; Howard Clapp, builder.
Forest Hill Ave., near Norfolk St., Ward 24, for John H. Paine, dwell., 25' 3" x 34' 3", two-story pitch; W. F. Frazer, builder.
Hampshire St., near Dudley St., Ward 20, for H. S. Frank, dwell., 20' x 48', three-story flat; R. L. Gierlick, builder.
Wanbeck St., near Wrentham St., Ward 21, for Nicholas S. Wilbur, dwell., 19' 2" and 28' x 59' 9", two-story pitch; N. S. Wilbur, builder.
Everett St., Nos. 98-102, Ward 2, for Geo. W. Hargrave, 3 dwellings, 20' x 31', three-story flat; Geo. W. Hargrave, builder.
Centre St., Nos. 71 and 73, Ward 21, for Albert Geiger, 2 dwellings, 20' 4" x 48' 11", three-story flat; A. D. Gould, builder.
Teller St., near Harrison Ave., Ward 20, for Philip O'Donnell, 2 dwellings, 22' x 36', three-story flat.

Wesley St., near Preble St., Ward 15, for Sylvester L. Hill, carpenter-shop, 16' x 25', one-story flat; Sylvester L. Hill, builder.
Hampshire Sq., near Dudley St., for H. D. Pratt, dwell., 28' x 46', three-story flat; R. L. Gierlick, builder.
Washington St., No. 64, Ward 1, for Margaret Saunders, dwell., 12' x 20' and 21' x 30', two-story mansard; J. & A. Motron, builders.
Devine St., No. 61, Ward 13, for J. J. Devine, 3 dwellings, 18' 9" x 32', 21' x 40', and 24' and 27' x 43', three-story flat; Geo. W. Pope, builder.
Devine St., Nos. 128-130, Ward 13, for James J. Devine, 5 dwellings, 18' 9" x 32', three-story flat; Jas. J. Devine, builder.
East Third St., Nos. 600-603, Ward 14, for Otis D. Dana, dwell., 22' x 40', two-story flat; Horace Manson, builder.
Marwick St., No. 43, Ward 2, for Geo. L. Thorndike, dwell., 22' x 40', three-story flat; Chas. J. Lord, builder.
Esplanade Ave., rear, near Beacon St., Ward 20, for J. H. French, stable, 12' x 14' and 37' x 40', one-story pitch; S. H. L. Pierce, builder.
Prospect Ave., Spring Hill Station, Ward 23, for R. O. Dunn, dwell., 12' x 18' and 21' x 25', two-story pitch; R. O. Dunn, builder.
C St., No. 124, Ward 13, for Michael Murray, dwell., 22' x 40', three-story flat; Wm. Gilyan, builder.
Devine St., Nos. 109 and 111, Ward 13, for Stephen J. Muskeel, 2 dwellings, 20' x 32', three-story flat; H. J. Hutchinson, builder.
Blue Hill Ave., No. 155, Ward 21, for H. G. Gavitt, dwell., 19' x 17' and 34' x 36'; two-story pitch; Cullen & White, builders.
Houghton St., near Pope's Hill St., Ward 24, for Ezra Taylor, dwell., 16' x 16' and 21' 6" x 28', two-story pitch; H. P. Oakman, builder.
Academy St., Nos. 62-65, Ward 3, for Wm. Sullivan, 3 dwellings, 12' x 25' and 20' 4" x 32', three-story flat.
Wesley St., near Water St., Ward 24, for Dennis Murphy, 2 dwellings, 11' x 13' and 11' x 24', two-story pitch; Samuel Davenport, builder.

Brooklyn.

BUILDING PERMITS.—*Twenty-sixth St., s s, 200' w Third Ave., two-story frame building, 12' x 24', two-story pitch; cost, \$3,000; owners, C. E. Rogers & Co., 32 Henry St.; architect and builder, H. E. Fickett.*
Prospect Ave., s s, 250' from Eighth Ave., three-story brick dwell., 12' x 30'; owner, Ana L. Britt, 288 Degraw St.; architect and builder, H. Britt.
Hopkins St., No. 196, s s, 80' w Throop Ave., three-story frame tenement, the roof; cost, \$3,500; owner, E. A. Corby, Eighth Ave., between the Hundred and Forty-second and One Hundred and Forty-third Sts., New York; architect, H. Vollweiler.
Lorimer St., No. 308, three-story frame store and tenement, the roof; cost, \$4,000; owner, E. K. Bolla, on premises; architect, H. Vollweiler.
Van off Ave., n s, 250' w Oakland St., three-story frame store and tenement, the roof; cost, \$4,000; owner, Aaron Heymann, 32 Van Cott Ave.; architect, H. Vollweiler.
Greene St., n w cor. West St., 2 buildings, one six-story and one one-story, for manufacture and engineering, the roof; cost, \$8,000; owner, New York Iron-wood Extracts and Chemical Co., 101 Front St., New York; architect, J. Ireland; builders, Burton & Nickel and Hamilton & Henry.
Flushing Ave., n s, 70' w Myrau Ave., three-story frame tenement, the roof; cost, \$4,200; owner, Wm. Lebahner, 1627 Flushing Ave.; architect, F. Holmberg.
Judge St., s s, 100' w Powers St., three-story frame store and tenement, the roof; cost, \$4,300; owner, L. Fritz, Bushwick Ave.; architect, F. Holmberg; builder, W. Holmberg.
Franklin Ave., No. 92, w s, 225' s Flushing Ave., three-story frame tenement, the roof; cost, \$3,000; owner, F. Seeger, 437 West Thirty-seventh St., New York; architect, T. J. Heir.
Canton St., s s, 200' s Tillary St., 2 four-story brick tenements, the roofs, wooden cornices; cost, each, \$6,000; owner, Patrick J. Moran, 63 Canton St.; architect, A. D. Reynolds; builders, Asasp & Buckley and F. & J. Garahan.
St. Marks Ave., n w cor. Brooklyn Ave., 4 three-story brown-stone dwellings, the roofs; cost, each, \$15,000; owner, Eliza J. Smith, cor. St. Marks and Brooklyn Aves.; architect, Geo. F. Chappell; mason, Cornelius King; carpenter, Morris & Salver.
Halsey St., Nos. 145, 148 and 150, 3 three-story brick and brown-stone dwellings, the roofs; cost, each, \$1,000; owner, Geo. S. Frost, 100 Frankl'n Ave.
Jefferson St., n s, 200' s Marcy Ave., 3 three-story brown-stone dwellings, the roofs; cost, each, \$6,000; owner, Geo. Phillips, 177 Hancock St.
ALTERATIONS.—*Columbia St., No. 217, two brick extensions, tin roofs, etc.; cost, \$5,500; owner, Mario S. Strenger, on premises; architect, E. Kenny.*

Chicago.

FLATS.—J. M. Van Odel, architect, planned the flats on Laflin St., near Jackson St., for Victor Waters, 20' x 60', Indiana pressed brick, brown-stone finish; cost, \$7,000.
HOUSES.—Plans are completed by J. M. Van Odel, architect, for Geo. V. Drake's dwell. on West Jackson St., 25' x 60', three-story; cost, \$8,000.
ALTERATIONS.—Plans are completed by J. M. Van Odel, architect, for dwell. on Jackson St., 28' x 75', two-story Anderson brick and brown-stone finish; owner, John Solitt; cost, \$14,000.
FLATS.—Plans are completed by J. M. Van Odel, architect, for dwell. on Wabash Ave., 19' x 60', three-story and

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BUILDING PATENTS.

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209,044. WINDOW-SASH.—Louis L. Arnold, Chicago, Ill.
209,045. VENTILATOR FOR WINDOW-SASHES.—Edward Wells Chadwick, Edgartown, Mass.
209,062. WRENCH.—John Combs, Rushville, O.
209,065. BRICK-CONSUMING FURNACE.—Alexander Crawford, Duluth, Minn.
209,087. FIRE-ESCAPE.—Oscar F. Davis, Topeka, Kan.
209,070. AUTOMATIC FIRE-ALARM.—Herbert N. Pomeroy, Providence, R. I.
209,084. WOOD DRYING-VENTILATION.—John P. Jamison, Cambridgeport, Mass.
209,093. RUBBER.—John E. Mann, Cleveland, O.
209,090. CHURCH FOR SKI-BOXES.—John O. Morrison, Williamsburg, N. Y.
209,003. JOINT FOR LEAD PIPES.—Wm. R. Patterson, Chicago, Ill.
209,054. BRICK-KILN.—Wm. H. De Valin, San Rafael, Cal.
209,050. GRATE.—Charles H. Fisher, Wheeling, West Va.
209,075. HEATING AND VENTILATING DEVICE FOR BUILDINGS.—Amelia M. Hicks, Clinton, and Alonzo Dishman, Paducah, Ky.
209,070. CHIMNEY-COWL.—J. Worth Jackson, Herbert B. Neighbor, John R. Stick, and Samuel F. Habitzel, Lafayette, Ind.
209,090. FIRE-ESCAPE.—John Larson and August W. Hagstrom, Stockholm, Wis.
209,091. FIRE-ESCAPE.—William Lawrence, Worcester, Mass.
209,105. WINDOW.—John Bartlett Montague, Jas. Thomas Booker, and Enoch Cass Dinning, Franklin, Ky.
209,112. FIRE-ESCAPE.—Robt. E. Nelson, Sr., Cumberland County, Va.
209,118. LUMBER-ELEVATOR.—John Paul, La Crosse, Wis.
209,127. SLIDING-JAW WRENCH.—William H. Rathcliff, Middleborough, Mass.
209,130. SINK.—Charles T. Regan, Brooklyn, N. Y.
209,132. HYDRAULIC-ELEVATOR.—Oliver P. Rice, New York, N. Y.
209,134. ELECTRIC BELL AND ANNUNCIATOR.—David Rousseau, New York, N. Y.
209,136. WRENCH.—Nita P. Sandell, Chicago, Ill.
209,138. HATCHWAY-GUARD.—John Scherer, Baltimore, Md.
209,145. WRENCH.—Henry Simon, Jr., Chester, Conn.
209,146. SCREW-DRIVER AND HOLDER.—John Sinnott, Chicago.
209,150. FREDING AIR TO FURNACES.—Sidney Smith, Cambridge, Mass.
209,159. DOOR-CHECK.—Otis Palmer Vandenberg, Toledo, O.
209,176. CARPENTER'S WORK-BENCH.—Clarence Adelbert Williams, Webster City, Io.
209,190. FIRE-EXTINGUISHING COMPOUND.—N. Gray Bartlett, Chicago, Ill.
209,207. STEAM-HEATER.—William C. Brownson, Saratoga Springs, N. Y.
209,213. VENER-CUTTING MACHINE.—Charles W. Gage, and Adelbert S. Gage, Homer, N. Y.
209,248. FIRE-ESCAPE.—Henry Greene, Philadelphia, Pa.
209,253. ELECTRIC BELL.—Edgar W. Hazzer, New York, N. Y.
209,258. ELEVATOR.—Martin W. Hoben, Cohoes, N. Y.
209,263. SASH-CORD FASTENER.—Henry F. Jencks, Pawtucket, R. I.
209,266. CABINET-SHAYE.—John A. Kelser, Cincinnati, O.
209,277. STONE-DRESSING MACHINE.—James W. Maloy, Somerville, Mass.
209,307. SASH-HOLDER.—Joseph Peter Centner, Pittsburgh, Pa.
209,308. FIRE-ESCAPE.—James A. Grandall, Brooklyn, N. Y.
209,331. ELECTRIC DOOR-LOCK.—Conrad Wuest, Zurich, Switzerland.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report thirty-three permits have been granted, the more important of which are the following:—
Thos. W. Long, 4 two-story brick buildings, w s Duncan Alley, s of Pratt St.
Geo. C. Herberman, 6 two-story brick buildings, n s Lancaster St., w of Luzerne St.
Daniel Ploek, three-story brick building, s w cor. Cross and Teca Sts.
W. A. Hanway, 8 three-story brick buildings (square), s a Robert St., between McCulloh and Madison Sts.
John Glenn, 7 three-story brick buildings, w s Carey St., continuing s w cor. Franklin St., and 7 three-story brick buildings, s a Franklin St., w of Calhoun St.
Geo. A. Blake, 4 three-story and one-story brick buildings, w s Charles St., between Bidwell and Preston Sts.

Wm. Keyser, 2 three-story brick buildings, s a Valley St., between Bidwell and Chase Sts.
John S. Magarity, 3 three-story brick buildings, s s Preston St., e of Einar St.
Thos. P. Johns, 4 two-story brick buildings, n s Hamburg St., w of Dana St.
J. R. Miller, three-story brick building, s s Baltimore St., w of Payson St.
John Keller, three-story brick building, s s Baltimore St., w of Payson St.
John McKroy, three-story brick building, w s Hancock St., n of Port Ave.
Otto Goldbach, 3 three-story brick buildings, commencing n e cor. Wolfe and Jefferson Sts., and 3 two-story brick buildings, w s Chapel St., n of Jefferson St.
Female Christian Home, three-story brick building, 114 Green St., w s.
Joshua Register, 10 two-story brick buildings, s s Alchuth St., between Townsend and Lanvale Sts.
S. D. Price, 4 two-story brick buildings, w s Peabody St., e of John St.

Boston.

STORE.—A store and office-building is now being built on Warren Street, for F. A. Brooks, Esq., measuring 12' x 24', three-story; W. G. Preston, of Boston, architect; Warren Hayford, contractor.
BUILDING PERMITS.—*Irish.*—Marbleway St., near Gloucester St., Ward 11, for Dr. J. C. White, dwell., 24' x 12' 30", two-story flat; M. C. Grant, builder.
Wood.—*Blue Hill Ave.*, Nos. 12-16, Ward 20, for E. W. Kittredge, 3 dwells., 25' x 40' and 53' x 24' x 25' 30", three-story flat; Chas. W. Wetmore, builder.
Clifton St., near Cottage St., Ward 20, for Marshall S. Rice, dwell., 15' x 20' and 21' x 30', two-story flat; A. McDonald, builder.
Crozier St., cor. Maple St., Ward 21, for G. Z. Adams, dwell., 33' 30' x 25' and 33' x two-story flat; Seth Weston, builder.
Adford St., opposite Malvern St., Ward 21, for John A. Sawyer, dwell., 30' x 25' and 41' x 42', two-story flat; S. P. Bennett, builder.
East Eighth St., Nos. 206-209, Ward 15, for Mrs. Sarah Barry, 3 dwells. and stores, 21' x 33' 10", three-story flat; Lyman Locke, builder.
Poplar St., rear, near South St., Ward 23, for Abbie H. Oils, stable, 14' x 22', one-story flat.
Kearney St., near Parsons St., Ward 25, for Granville A. Fuller, stable, 22' x 30', one-story flat; Chas. W. Howers, builder.
Saratoga St., Nos. 691 and 693, Ward 1, for Albert Sticks, 2 dwells., 16' x 20' and 20' x 30', two-story flat.
Fairfax St., near Carruth St., Ward 21, for Herbert S. Carruth, stable, 16' x 28' and 22' x 28', two-story flat; F. N. Severance, builder.
Whitney St., Nos. 42 and 44, Ward 22, for Michael Moran, 3 dwells., 23' x 30', three-story flat.
Kent Seventh St., Ward 14, for Jacob P. Powers, dwell., 19' x 34', two-story flat; Jacob P. Powers, builder.
Chancer St., Ward 1, for James Robertson, stable, 19' x 20', one-story flat; Edwin J. Turner, builder.

Chicago.

BUILDING PERMITS.—J. Williams, 2 two-story dwells., 288 and 270 North State St.; cost, \$8,000; architect, J. Huber.
SCHOOL-HOUSES.—The contracts for building the Thomas Hoynes School, cor. of Cass and Illinois Sts., have been awarded, with a total of \$50,653.55; also the contracts for the building on the Lake-street lot, at a cost of \$41,150.00.
J. J. Flanders, architect, has been directed by the Board of Education to prepare plans and specifications for a new school-building to be built on the Holstein-street lot.
A. Abbott, two-story store and dwell., 738 Van Buren St.; cost, \$4,000.
J. McLaughlin, two-story store and dwell., 400 Twenty-sixth St.; cost, \$4,000.
A. Weber, two-story dwell., 587 Jefferson St.; cost, \$3,000.
H. Lenoach, three-story dwell., 435 Jefferson St.; cost, \$3,500.
C. D. Ferns, two-story dwell., 11 Pine St.; cost, \$3,000.
J. Schuor, 2 two-story dwells., 436 and 438 Dayton St.; cost, \$3,000.
W. H. Hoyt, 5 four-story dwells., 32 to 40 Pine St.; cost, \$49,000; architect, A. Smith.
Thos. Mackin, two additional stories, 56-58 North Clark St.; cost, \$30,000.
C. H. Cook, two-story dwell., 559 Ashland Ave.; cost, \$2,500.
M. Sillig, two-story dwell., 142 Ambrose St.; cost, \$3,000.
H. R. Payson, four-story store and flats, 2113 and 2115 State St.; cost, \$14,000; architect, C. M. Palmer.
M. Halligan, two-story dwell., 531 Oakley St.; cost, \$2,500.
M. A. Williams, two-story dwell., 231 Lincoln St.; cost, \$4,000.
J. F. Hastings, 4 cottages, 2026-2031 Lowe Ave.; cost, \$14,500.
G. Dopplish, three-story flats, 339 to 347 Loomis St.; cost, \$2,500.
F. Foltz, three-story dwell., 419 Dearborn Ave.; cost, \$15,000; architect, Treat & Foltz.
H. T. Porges, three-story store and dwell., 766 Halsted St.; cost, \$10,500; architect, W. Huchl.
C. Draback, three-story store and dwell., 611 Centre Ave.; cost, \$6,700; architect and builder, A. Loula.
A. Kolar, three-story dwell., 161 N. Nineteenth St.; cost, \$4,200; architect and builder, A. Loula.
O. Strom, three-story flats, 203 Illinois St.; cost, \$5,000; architect, H. I. R. Hanson.
Mary J. Neager, four-story store, 136 and 138 West Madison St.; cost, \$30,000; architects, Parsons & Sons, Quincy, Ill.; builder, J. Downey.
E. S. Piko, three-story addition to dwell., 2101 Prairie Ave.; cost, \$8,000; architect, F. L. Charnley; builder, W. A. Barton.
D. F. Marten, three-story dwell., 80 Morgan St.; cost, \$5,000; architect, Wm. Strippelman.

St. Johns School, two-story school-house, 380 North Wood St.; cost, \$2,700; architect, H. Clay.
A. Manson, three-story dwell., 24 11th St.; cost, \$3,000; architect, Otto; builder, C. Land.
J. R. Willett, 2 three-story stores and dwells., 608 and 610 West Madison St.; cost, \$10,000; architect, J. R. Willett; builder, John Cox.
C. Passon, two-story dwell., 177 Wright St.; cost, \$3,000.
J. Kimball, 2 two-story dwells., 412 and 444 Thirty-seventh St.; cost, \$15,000; architect, L. C. Quackenbush; builder, A. McIntosh.
F. Harbour, two-story dwell., 24 Delaware Pl.; cost, \$6,000; architects, Treat & Foltz; builders, Holmes Bros.
R. Krenz, two-story dwell., 77 Jay St.; cost, \$3,000; architect, W. A. Rend.
B. Langau, three-story dwell., 294 Superior St.; cost, \$6,000; architect, F. H. Wascher.
Mrs. McCormick, three-story dwell., 1715 Michigan Ave.; cost, \$5,000; architects, Adair & Sullivan; builders, Lund & Gilbert.
S. Wheeler, three-story dwell., 42 Cedar St.; cost, \$3,000; architect, N. Zarbull; builders, Lund & Gilbert.
J. Featherstone, 2 two-story dwells., 14 and 16 Wood St.; cost, \$6,000; architect, F. Baumann; builder, I. Weick.
J. Ratke, two-story dwell., 164 Sheffield St.; cost, \$3,500; architect, Burling; builder, J. Herd.
M. Mueller, three-story store and flats, 2506 State St.; cost, \$6,000; architect, E. H. Richter; builder, B. G. Robinson.
J. Friedrich, two-story dwell., 182 Centre Ave.; cost, \$5,000; architects, Schaub & Berlin; builders, Hudson & Gillespie.
H. Stump, two-story flat, 634 West Harrison St.; cost, \$3,000; builder, H. Stump.
J. K. Russell, three-story addition, 90 and 111 Fulton St.; cost, \$3,000.
M. Fitzgerald, three-story flat, 1008 Dearborn St.; cost, \$5,000.
C. K. Miller, three-story dwell., 542 and 544 North State St.; cost, \$18,000; architect, A. M. F. Goldman.
M. Louen, two-story store and dwell., 170 East North Ave.; cost, \$3,400.
G. W. Burchard, 3 two-story dwells., 2320 to 2322 Forest Ave.; cost, \$10,000; architect, J. H. Haskin; builder, J. Beziell.
F. Hathaway, shelter-shed, Kingsbury St.; cost, \$5,000.
A. Crane, 3 one-story cottages, Lowe St.; cost, \$3,000.
J. Traynor, two-story dwell., Taylor St.; cost, \$4,500.
M. Batta, two-story store and dwell., 3713 Westwood Ave.; cost, \$5,000; architect, M. Batta; builders, Goodrich Bros.
Mrs. W. H. Murray, two-story dwell., 1919 Prairie Ave.; cost, \$30,000; architect, S. S. Benan; builders, McDermott & O'Brien.
E. Standaard, two-story flats, 101 George St.; cost, \$3,000.
J. H. Winterburn, two-story dwell., 556 Van Buren St.; cost, \$3,000.
C. Draback, two-story store and dwell., 105 Fowler St.; cost, \$4,000.
R. Pfeiffer, two-story dwell., 111 String St.; cost, \$2,800.
F. C. Miller, two-story dwell., 186 West Fifteenth St.; cost, \$1,500; architect and builder, F. O. Miller.
Wm. Hubbard, two-story dwell., 438 LaSalle Ave.; cost, \$4,000.
Wm. D. Gaensslen, two-story parking-house, Weaver St.; cost, \$12,000; architect, T. Karis.
The Board of Education, three-story school-house, Small St.; cost, \$14,000; architect, J. J. Flanders; builders, Robinson & Miner.
M. Meyer, 2 three-story dwells., 255 Rush St.; cost, \$8,000; builder, C. Weeltner.
Hurd & Shattlerly, 8 cottages, Thirty-second St.; cost, \$12,000.
H. Helder, five-story factory, 125 to 135 West Washington St.; cost, \$65,000; architect, J. J. Flanders; builder, Thos. Nicholson.
Geo. E. Adams, three-story store and flats, 2501 Calumet Ave.; architect, F. H. Wascher; builders, Miller & School.
C. Prentiss, three-story flats, 202 Division St.; cost, \$4,000.
G. Hullen, three-story flats, 833 and 835 Illinois St.; cost, \$3,000.
A. Humm, three-story store and dwell., 191 Dayton St.; cost, \$8,000; builder, C. F. Prussing.
Howling & Crowhurst, 3 cottages, 1107 to 1111 Elston St.; cost, \$1,000.
Wm. Molloy, three-story store and dwell., 783 Van Buren St.; cost, \$7,000.
Washington Boulevard Skating Rink Co., skating rink, Washington St., cor. Curtis St.; cost, \$50,000; architects, Burdham & Ross; builder, Chas. Taylor.
Geo. Kingles, three-story store and flats, 770 and 772 Milwaukee Ave.; cost, \$12,000; architect, G. Kleg; builder, F. Hanson.
G. Thomas, 2 two-story stores and flats, 107 and 109 Lincoln Ave.; cost, \$4,000.
F. Golluck, two-story dwell., 661 West Twentieth St.; cost, \$2,400.
J. Seiver, two-story dwell., 765 Loomis St.; cost, \$3,700.
J. Rebach, two-story dwell., 1087 Blue Island Ave.; cost, \$2,500.

Cincinnati.

STORE.—Mr. Christ, Moorhead is to build a six-story brick store, with terra-cotta and freestone finish, on w corner of Pearl and Race Sts., 46' x 84'; cost, \$25,000; architect, Mr. Geo. W. Hupp.

Detroit.

BUILDING PERMITS.—The following permits have been granted since our last report.
William Scott & Co., brick dwell., 621 Woodward Ave.; cost, \$37,000.
William Scott & Co., block of brick stores, 12-120 Woodward Ave.; cost, \$26,000.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

300,313. PROTECTING PILES.—Jacob A. Camp, Sausalito, O.

300,317. FIRE-ESCAPE.—Matthew O. Corrigan, Holywood, Kans.

300,350. GRADING COMPOUND.—William Henry Dow, Burlington, Vt.

300,371. WALL-PAPER, PAPER-BOARD, ETC.—Henry W. Johns, New York, N. Y.

300,387. KEY-FARTNER.—Robt. T. Miller, Covington, Ky.

300,388. VISE.—Alphonse Montant, New York, N. Y.

300,393. LOCK.—Emery Parker, New Britain, Conn.

300,395. FOLDING STAIRS.—Theodore Peterson, Boston, Mass.

300,399. PLANE.—Solon R. and Arthur E. Rust, Pine Meadow, Conn.

300,407. FILE-DRIVER.—Thomas Tangney, New York, N. Y.

300,423. TOOL FOR SPLITTING STONE.—Warren W. Wild, Lee, Mass.

300,461. COMPOUND MATERIAL FOR THE MANUFACTURE OF SHEETS, BOARDS, BLOCKS, ARTIFICIAL WOOD, ETC.—Levi Haas, Chester, Pa.

300,468. FIRE-ESCAPE.—Thomas Hale, Claydon, County of Suffolk, Eng.

300,476. DUAL-HANDER.—Warren Ide, Medina, N. Y.

300,498. FIRE-ESCAPE.—Howard Paddock and Herman Walter Miller, Albany, N. Y.

300,499. DOOR-LATCH.—Henry Parkin, Albert Terrace Bow, and Charles James Reynolds, Down Park Road, Clapton, County of Middlesex, England.

300,521. TILE OR BRICK FOR FLOORS, ETC.—Thos. C. Smith, Brooklyn, N. Y.

300,536. MEANS FOR UNITING WOOD.—Albert H. Walker, Brooklyn, N. Y.

300,540. SUPPLY VALVE FOR WATER-CLOSURES, ETC.—Henry Cory Weeden, Boston, Mass.

300,541. SAFETY-LATCH FOR ELEVATORS.—Frank Arthur Weeks, Ennisville, Ontario, Can.

300,552-553. PLATE FOR BOWLS AND BATH-TUBS.—Jas. D. Bacon, Boston, Mass.

300,558. BRICK-MACHINE.—Henry C. Barker, Sedalia, Mo.

300,560. COMPOUND FOR THE MANUFACTURE OF ARTIFICIAL STONE.—Hermann Benlig, New York, N. Y.

300,562. WINDOW-SCREEN.—Nicholas J. Bishop, Brooklyn, N. Y.

300,581. FIRE-PROOF BUILDING.—William H. Dolman, Brunswick, Me.

300,589. COMPOUND AND SELF-ACTING PLUG-VALVE FOR WATER-BASINS.—Thomas F. Ford, Jr., Brooklyn, N. Y.

300,601. ANNUNCIATOR.—Robert Josephus Howett, St. Louis, Mo.

300,622. FIRE-ESCAPE.—George W. Mickle, Amherstburg, Ontario, Can.

300,628. DISINFECTING AND CLEANSING WATER-CLOSURES.—Charles F. Pike, Philadelphia, Pa.

300,651. AREA-WINDOW FRUIT-CUTTER.—Joseph F. Smith, Pittsburgh, Pa.

300,663. CHIMNEY-CAP.—David Ollinton Trester, Anamosa, Iowa.

300,671. ELEVATOR-GATE ATTACHMENT.—Isaac K. Beckman, Dubuque, Iowa.

300,694. SASH-FASTENER.—Osborne R. Cook, Salem, O.

300,711. WARMER.—Frank Waldo Merrick, Sandusky, O.

300,725. VESSELS-Press.—Augustus Newell, Chicago, Ill.

300,729. FIRE AND WATER PROOF COMPOUND.—Oscar F. Parsons, Kew-Forest, N. Y.

SUMMARY OF THE WEEK.

Baltimore.

CHURCH.—Frank E. Davis, architect, is preparing plans for the Methodist Protestant church and chapel, cor. Gilmore St. and Lafayette Ave., of stone, 60' x 100'; style, Gothic; seating capacity, 500 each; and to cost, \$25,000.

DWELLINGS.—Henry Brauns, architect, has prepared drawings for James Boyce, Esq., for 5 three-story brick dwellings, with Cheate River stone and terra-cotta finish, to be built on Charles St., bet. La Salle and Townsend Sts., on lot 85' x 120', and to cost, \$25,000.

FRANKE WHITE, Esq., is to have built a three-story brick and stone house, 45' x 100', on W. St. Paul St., near Chase St., to cost, \$30,000; from designs by Charles L. Carson, architect.

WAREHOUSE.—Jackson Holland, builder, is to build a five-story warehouse of brick and stone on Fayette St., near Liberty St., 28' x 100'; to cost, \$12,000; from designs by Frank E. Davis, architect.

BUILDING PERMITS.—Since our last report twenty-one permits have been granted, the more important of which are the following:—

Bridget Ward, three-story brick building, e. s. Hanover St., n. First Ave. St.

Jas. E. Clayton, three-story brick building in rear of Nos. 111 and 113, e. s. Gay St., bet. Front and Fifth Sts.

John J. Schafer, three-story brick building, w. s. Harford Ave., near cor. Townsend St., w. Harford Ave.

Thos. H. Callis, 7 two-story brick buildings, w. s. Jefferson St., commencing n. w. cor. Castle St., and 18 two-story brick buildings, w. s. Castle St., bet. Jefferson and McKim Sts.

Wm. Bialke, three-story brick building, w. s. Ann St., n. Kager St.

Thos. Fairley, 2 two-and-one-half-story brick building, e. s. Druid Hill Ave., bet. Dolphin and Lanvale Sts.

Peter Meise, three-story brick building, w. s. Bethel St., bet. Lancaster and Alameda Sts.

Boston.

BUILDING PERMITS.—Arch.—Washington St., cor. South May St., Ward 17, for L. R. Cutter, tenement, 30' x 40' and 45' x 80', five-story; tenement and stores, 45' x 45' and 30' x 33', five-story; tenement, 20' x 41' 30' and 30' x 30', five-story; P. A. Richardson, builder.

Ball St., No. 6, Ward 19, for J. H. T. Adams, dwell., 10' 6" x 32', three-story flat; J. W. Coburn & Co., builders.

Angell St., No. 99, Ward 19, for J. H. T. Adams, dwell., 10' 6" x 32', three-story flat; Timothy Connelly, builder.

Forster St., No. 971, cor. Rickford St., Ward 22, for City of Boston, primary school, 14' 30' x 75' 00', two-story pitch; Woodbury & Leighton, builders.

Wood.—Taylor St., rear, near Water St., Ward 21, for Albert F. Stearns, mechanical, 37' 6" x 61' 00', two-story flat; A. T. Stearns Lumber Co., builders.

Enfield St., near Spring Park Ave., Ward 23, for Elizabeth Urban, dwell., 10' x 20', two-story pitch; Jacob Lippold, builder.

Englewood Ave., near Chestnut Hill Ave., Ward 23, for Mabel C. Russell, 2 dwell., 23' x 26' 00' and 32' x 42', two-story pitch; Jackson Downing, builder.

Forest Hill Ave., rear, near Norfolk St., for N. Y. & N. E. R. R., passenger-station, 12' 0" x 20' 30', one-story pitch.

Adams St., cor. Pierce Ave., Ward 24, for A. C. Drake, dwell., 20' and 20' x 28', two-story pitch; A. C. Drake, builder.

Adams St., opposite Robinson St., Ward 24, for F. & W. Simpson, dwell., 30' x 32', two-story pitch; John Early & Son, builders.

Gold St., Nos. 190 and 192, Ward 1, for J. S. Hilliard, 2 dwell., 27' x 40', two-story flat.

Medford St., No. 199, Ward 3, for Edmund Keyes, storehouse and stable, 30' x 60', three-story flat.

West First St., No. 294, Ward 14, for Isabella K. Jarvis, storage, 22' x 43', one-story flat; Richardson & Hatch, builders.

Bowdler St., No. 292, rear, Ward 1, for Boston Dye-wood & Chemical Co., storage, 50' x 50', one-story flat; Leonard Pickering, builder.

Amory St., cor. Boylston St., Ward 23, for Boylston Congregational Church Society, church, 6' and 80' x 100', one-story pitch; Need & Nelson, builders.

James St., rear, Ward 18, for N. E. Conservatory of Music, storage, 35' x 50', one-story flat.

Marshall St., near Milken Ave., Ward 24, for Milten H. Jackson, dwell., 27' 10" x 29' 00', two-story pitch; Milten H. Jackson, builder.

Keyes St., No. 67, Ward 3, for Ferdinand Kiley, stable, 12' x 14' and 12' x 18' 00', one-story pitch; Donald McDonald, builder.

Washington St., near Beach St., Ward 23, for Owen Mullin, dwell., 24' x 30', two-story pitch; Alexander Rogers, builder.

Whitney St., No. 34, Ward 11, for Patrick Nolan, carriage shed, 16' x 16', one-story flat; Patrick Nolan, builder.

Beale Ave., cor. Norfolk St., Ward 27, for Amos W. Staton, dwell., 20' x 26', two-story pitch; Swanson & Murray, builders.

Sayward St., near Birch St., Ward 26, for W. H. Sayward, 2 dwell., 10' x 22' and 20' x 31' and 10' x 19' and 20' x 30', two-story pitch; W. H. Sayward, builder.

Sheridan St., No. 41, Ward 23, for Thos. B. Hall, dwell., 24' x 30', two-story pitch; Black & Cox, builders.

Unnamed St., near Washington St., Ward 24, for Edward F. Dunham, dwell., 22' x 40', three-story flat; M. McLaughlin, builder.

Pratt St., near Linden St., Ward 23, for Isaac Pratt, Jr., dwell., 20' and 20' x 30', two-story pitch.

South St., cor. Skinner St., Ward 23, for W. A. Kingsbury, dwell., 18' x 22' and 22' x 30', two-story pitch; W. A. Kingsbury, builder.

Brooklyn.

BUILDING PERMITS.—Sullivan St., No. 65, s. s. 200' x Richards St., three-story frame tenement, tin roof; cost, \$1,800; owner, Franklin W. Teller, 64 Sullivan St.; architect, John Smyth; builders, John Coddy and Daniel J. Lynch.

Fifty-fifth St., s. s. 325' 00' x Third Ave., 2 two-story and basement frame dwell., tin roofs; cost, for both, \$1,900; owner, Simon Stiner, 343 West Thirty-second St., New York; architects, Spencer Bros.; builders, J. Crouch and Spencer Bros.

Third St., w. s. 100' n. North Eighth St., three-story brick dwell., tin roof; cost, \$4,000; owner, Patrick Dalton, 34 Third St., architect, Thos. F. Houghton; builder, John C. Leahy.

Clea St., No. 11, four-story brick store and tenement, tin roof; cost, \$7,000; owner, Mrs. M. J. Cameron, on premises; architect, Geo. Hansen; builder, T. McQuinn.

Broadway, e. s. 60' n. Furman Ave., 2 three-story frame stores and dwell., tin roofs; cost, for both, \$7,250; owner, Lucius Bridentine, 16 Grand St., New York; builder, Jacob Pirring.

Hoyt St., e. s. 25' x Warren St., 3 four-story stores and tenements, gravel roofs; cost, each, \$7,000; owner, L. Q. Buckley, 146 Sixth St.; architect, W. J. Coats; builders, Asap & Buckley.

Monroe St., s. s. 475' x Tompkins Ave., 14 three-story brown-stone dwell., tin and slate roofs; cost, each, \$3,500; owner, etc., John F. Ryan, 187 Hewes St.

Tree-fifth St., s. s. 200' x Fourth Ave., 3 two-story and basement brick dwell., tin roofs; cost, for all, \$11,000; owner, Chas. Hagedorn, Third South St., between Fourth and Fifth Aves.; architect and builder, Edwin C. Squance.

Bushwick Ave., No. 105, three-story frame tenement, tin roof; cost, \$1,200; owner, Leopold Frits, on premises; architect, F. Holmberg.

Furman Ave., No. 1013, three-story frame store and tenement, tin roof; cost, \$1,300; owner and builder, Wm. Holman, 47 Hargett St.; architect, Frank Holmberg.

Washington St., w. s. 60' n. Johnson St., four-story brick building for business purposes; cost, \$25,000; owner, T. A. & L. F. Newman, 305 Fulton St.; architect, John Mumford; builders, Cornelius Cameron and John Lee.

Stacy St., s. s. 150' x Bushwick Ave., three-story frame tenement, tin roof; cost, \$3,300; owner, John Hoer, 233 Sagg St.; architect, E. Schrempf; builders, Caspar Wahler and C. Wieber.

Evergreen Ave., s. s. 60' n. Myrtle St., three-story frame tenement, tin roof; cost, \$1,200; owner and architect, George Schosner, 93 Myrtle St.; builders, Caspar Wahler and John Rueger.

Evergreen Ave., No. 94, s. s. three-story frame tenement, tin roof; cost, \$3,800; owner, Thomas Hunt, 88 Meeker Ave.; architects and carpenters, Samuels & Bedford; masons, Doyle & Brazil.

Darce St., 14' x 23', n. s. three-story frame dwell., tin roof; cost, \$1,500; owner, Cath. Lehr, on premises; architect, Th. Engelhardt; builders, Chas. Dehken and John Schneider.

Decker St., No. 80, s. s. 200' x Humboldt St., three-story frame tenement, tin roof; cost, \$3,600; owner, Henry Stock, 31 Debevoise St.; builder, Jos. Wagner.

Luipold St., Nos. 332-342, s. s. 125' x Lewis Ave., 6 three-story frame tenements, tin roofs; cost, \$1,000 each; owner and builder, George Straub, 11 Lewis Ave.; architect, Th. Engelhardt.

Manhattan Ave., No. 155, w. s. 50' x Norman Ave., three-story frame store and tenement, felt and gravel roof; cost, \$5,000; owner, Wm. Hind, 151 Manhattan Ave.; architect, Israel Pappas; builders, S. Harrison and John Fallon.

Broadway, s. e. cor. Fourth St., six-story iron front store and factory, tin roof; cost, \$5,000; owner, Ida Smith; architect, W. H. Taylor; builders, Lamb Bros. and Jenkins & Gillies.

Even St., s. e. cor. Stagg St., rear front on Stagg St., 2 four-story brick tenements, tin roofs; cost, \$13,000; owner, Mrs. S. M. Travis, cor. Kew and Stagg Sts.; architect, Geo. F. Chappell; builder, W. J. Conway.

Seventeenth St., n. s. 150' x Eighth Ave., 3 three-story brick tenements, tin or gravel roofs, wooden cornices; cost, each, \$5,000; owner, J. H. Herbert, 1411 Monroe St.

George St., No. 22, s. s. 225' x Evergreen Ave., three-story frame tenement, tin roof; cost, \$1,500; owner, John Meyer, 20 George St.; architect, Th. Engelhardt; builder, Wm. Hellman.

South Fourth St., s. s. 100' x Fourth St., 3 three-story and basement school, tin roof; cost, \$4,000; owner, St. Leonard's Academy, South Fourth St., near Fourth St.; architect, Thos. F. Houghton.

Trentman St., s. s. 100' x Evergreen Ave., 2 three-story frame tenements, tin roof; cost, \$1,500; owner and builder, M. Dechler, Evergreen Ave., near Jefferson St.; architect, J. Platte.

Jan Brant St., s. w. cor. William St., 3 four-story dwell., tin roofs; cost for all, \$25,000; owner, Martin Livingston, 17 Broadway, New York; architect, Mortimer G. Merritt; builder, Rulief Van Brunt.

Twelfth St., s. s. 450' x Seventh Ave., one-story brick electroplying establishment, tin roof; cost, about \$3,000; owner, etc., Ansonia Clock Co., Seventh Ave., cor. Twelfth St.

Ten Eyck St., n. s. 64' x Bushwick Ave., two buildings, one as a kitchen and laundry, and the other as a corner's office, morgue, etc., and boiler-house, slate and tin roofs; cost, \$20,000; owner, St. Catherine's Hospital, Bushwick Ave., cor. Mauger St.; architect, Wm. Schickel; builder, Driek Maurer.

Lafayette Ave., s. s. 375' x Broadway, two-story frame dwell., tin roof; cost, \$3,400; owner, Annals Johnson, 20 Suydam St.; architect, H. Vollmeier; builder, Samuel W. Post.

Summer Ave., s. w. cor. Stockton St., three-story frame store and tenement, tin roof; cost, \$6,000; owner, Michael Jacobs, cor. Park and Summer Ave.; architect, George L. Patrick; builder, C. Dietrick.

River front, Warren St., Congress St., 2 two-story brick warehouses, gravel roofs; cost, each, \$25,000; owner, Journalist F. Robinson, 6 Montague Terrace.

Middleton St., n. s. 175' x Broadway, 5 three-story frame tenements, tin roofs; cost, each, \$4,300; owner, Jakob Bosner, 233 Lynch St.; architect, J. Platte; builder, J. Anor.

Alterations.—Third St., No. 38, add two stories to extension, interior alterations, etc.; cost, \$4,000; owner, Mrs. Helen M. Oldner, 86 South Ninth St.; architect, E. F. Claytor; builders, M. Smith and R. H. Ferguson.

Court St., No. 427, cor. Third Pl., four-story brick extension; cost, \$6,000; owner, Wm. H. Middendorf, on premises; architect, J. W. Bailey; builders, J. Goly and P. P. De Bow.

South Fifth St., No. 216, three-story brick extension, also interior alterations, etc.; cost, \$3,600; owner, Mrs. A. M. Grawold, on premises; architect, J. G. Glover; builder, not selected.

Clinton Ave., No. 232, three-story brick extension, tin and copper roof; cost, \$15,000; owner, Chas. Pratt, on premises; architects, Sturgis & Brigham; builder, Morris Building Co.

Clinton Ave., No. 219, s. s. between Willoughby and De Kalb Aves., two-story brick extension, tin roof; cost, \$3,000; owner, Frederick A. Schrau, on premises; architect, W. A. Munsell; builders, C. Cameron and T. B. Jacobs.

Chicago.

BUILDING PERMITS.—W. J. Ricker, 4 one-story cottages, Daniel St.; cost, \$3,000.

W. J. Ricker, 4 one-story cottages; cost, \$3,000.

The Board of Education, four-story school-house, Rockwell St.; cost, \$14,000; architect, J. J. Flannery; builders, Peterson & Dealy.

Mrs. M. Rodgers, two-story dwell., 651 Taylor St.; cost, \$3,000.

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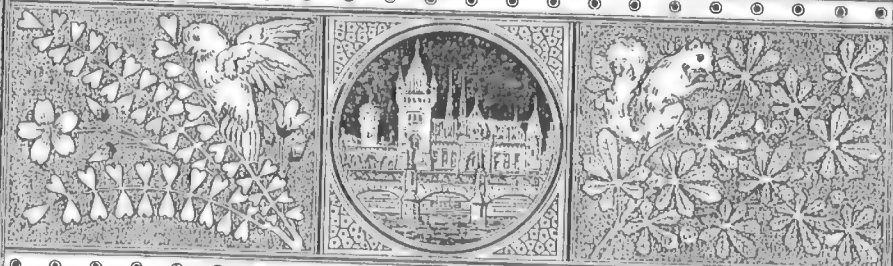
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W. J. Ricker, 4 one-story cottages; cost, \$3,000.



UNION CLUB-HOUSE, CHICAGO, ILL. COBB & FROST ARCHITECTS

THE
AMERICAN ARCHITECT
AND
BUILDING NEWS



VOLUME XVI

JULY-DECEMBER
1884

JAMES ROSGOOD & CO. PUBLISHERS.
211 TREMONT ST. BOSTON.

(Reported for The American Architect and Building News.)

{Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.}

[Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

300,771. BIT-STOCK. — John S. Fray, Bridgeport, Conn.
300,773. LOCK. — James Gwynn, Detroit, Mich.
300,776. WINDOW-SCREEN. — George W. Heary, West Jersey, Ill.
300,783. SEARCH-DOG. — Chas. C. Johnson, Springfield, Vt.
300,790. HYDRAULIC CEMENT. — John Murphy, Columbus, O.
300,791. FIRE-ESCAPE. — Jas. Edward Post, Poughkeepsie, N. Y.
300,822. FIRE-ESCAPE. — James B. Wiltshire, Cincinnati, O.
300,835. FIRE-ESCAPE. — Jesse H. Burke, Los Angeles, Cal.
300,847. WEATHER-STRIP. — Jacques Couturier, Lyons, France.
300,905. FIRE-ESCAPE. — Lewis J. Evans, New York, N. Y.
300,921. CONTRACTION OF BUILDINGS. — Edwin Gilbert, Georgetown, Conn.
300,940. IRON CHAIR-GUARDS. — George Washington, Israel, Logansport, Ind.
300,881. WINDOW-SCREEN. — Egbert S. Masters, Sacramento, Cal.
300,914. SAW-MILL-TILE MACHINE. — Calvin J. Merrill, Des Moines, Ia.
300,894. PIPE-CUTTER. — Edwin A. Robbins, Boston, Mass.
300,917. BIT-STOCK AND DIS. — Nelson Sawyer, Hartford, Conn.
300,922. FIRE-ESCAPE. — John G. Schiller, Youngstown, O.
300,905. WATER-CLOSET. — James Sample, Cincinnati, O.
300,917. HYDRAULIC CUSHION FOR WATER-PIPE. — John Story, Cincinnati, O.
300,850. ELEVATOR-GUARD. — Henry C. Wilcox, Boston, Mass.
300,939. WEATHER-STRIP. — William D. Bennett, Bedford, Ia.
300,916. PULP-BOARD FOR ROOFING PURPOSES. — Philip Carey, Cincinnati, O.
300,834. BARM-HOLDER. — Edwin B. Clement, Marshfield, Ia.
300,861. SCREW-TAP. — Henry Wilcox Eddy, Toledo, O.
300,943. BIRK. — James Kilbourne, Columbus, O.
300,005. SASH-FASTENER. — Jacob Reiff, Alkippackville, Pa.
301,017. DRY CLOSET. — Frederick F. Street, Hartford, Conn.
301,019. FIRE-ESCAPE. — B. Frank Teal, Philadelphia, Pa.
301,022. WARM-AIR FURNACE. — John Walsh, Newton, Ia.
301,068. BIT-BRACK. — Wm. A. Ives, New Haven, Conn.
301,081. HOT AND COLD WATER FAUCET. — James C. Loucks, Grand Rapids, Mich.

Baltimore

DWELLINGS.—Francis I. King, Esq., is to have built 8 three-story brick and iron fireproof brown-stone dwellings, on the e Park Ave. and e Madison St., 207 x 604, and the other, 207 x 604; from designs by Chas. L. Carson, architect; John E. Marshall, builder.

RESTAURANT.—George A. Frederick, architect, has prepared drawings for Aug. Vannoe, Esq. for a three-story brick building of brick, with stone and iron details, to be built on the triangular lot cor. Winthrop and Mott Sts., 167 x 40; cost, \$10,000; E. W. H. McDonald, builder.

BUILDING PERMITS.—Since our last report twenty-eight permits have been granted, the more important of which are the following:

J. H. Morrow, 2 two-story brick buildings, w a Coombe Alley, bet. York and Hill Sts.

Wm. Gilmore, three-story brick warehouse, a Caroline St., bet. Canton and E. 10th Sts.

A. F. Dunbar, three-story brick building, a Federal St., e of Washington St.

Sam'l B. Dorr, 7 three-story brick buildings, n a Lexington St., bet. E. 10th and 12th Sts.

Mrs. E. Wise, four-story brick warehouse, a Fayette St., bet. Liberty and Charles Sts.

Leander Foreman, 1 two-story brick buildings, a Lexington Division and Eiting Sts.

John Keenr, three-story brick building, w a Riverside Ave., s of Hamburg St.

Swift & Lucy, 10 two-story brick buildings, w a Dunsmuir Alley, e of Canton Ave.

Wm. H. Street, 3 two-story brick building, n a Baltimore St., bet. Carrollton Ave. and Nelson St.

Henry Hoffman, three-story brick building, a German St., bet. Eutaw and Howard Sts.

John H. Harter, 3-story brick building, w a Fremont St., bet. Mulberry and Mercer Sts.

There is no change in the labor quotations.

BUILDING P. MITTS, *see* **A-2000.**

No. 66-74, cor. Washington St., Wd. 183-191, cor.
W Clark R. for Elizabeth L. Eldridge, family, build-
ing 1870, seven-sty flat; H. Culbert & Son, builders
No. 18, Kiersey, near 1st St., Wd. 183-191, cor.
only R. H. Co., store, 2' 4" x 20' 6", one-sty flat; Sam-
uel Stevens, builder.

only R. H. Co., corner Cove St., Ward 12, for Old Col-
ony Stevens, builder.

Wayne St., near Castle St., Ward 18, for Boston
Bldg. Co., store, 2' 6" x 20' 6", one-sty flat; Sam-
uel Stevens, builder.

Wood - Lexington St., Nos. 241 and 243, Ward 1,
two-story masonry cottage, 2 dwells, 17' x 28' and 21' x
26'; two-story masonry curvy, building.

West First St., No. 345, Ward 1, curvy, building.

S. Kleker, stable, 31' x 40' and 32' x 60', two-sty

Staten St., n. e. Ward 23, for James Jackson, dwell., 18' x 20' and 22' x 29', two-st'y pitch.
Staten St., n. e. Ward 23, for Nathaniel Crawshaw, dwell., 18' x 20' and 18' x 29', two-st'y pitch.
Brown Ave., near Sharon St., Ward 23, for Philip H. Butler, dwell., 20' and 36' x 40', two-st'y pitch; Spinney, Haddock & Co. builders.
Adams St., o. r. Forest St., Ward 24, for Jason Gordon, green-house, 10' x 18' and 20' x 72', one-st'y pitch; Jason Gordon, builder.

BUILDING PERMITS.—Front St., Nos. 178 and 180, two-st'y brick factory, tin roof; cost, \$10,000; owner, The Tin Plate Decorating Co., 72 John St., New York; architect, Wm. J. Fryer, Jr.; builder, Rich and Shaper.

Graham St., No. 73, on E. 170th n Park Ave., four-st'y brick tenement, tin roof; owner, Philip O'Reilly, on premises; architect, Wm. H. Burhaus.

*Atlantic Ave., n.s. 234 West Bond St.; 6 four-story
brick stores and flats; tin roofs; cost, each, \$9,000;
owner, J. H. Biddle, 337 Smith St.; architect,
Chas. E. Hubbard.*

*Herkimer St., n.e. 100 s Saratoga Ave.; 2 two-story
frame dwellings, shingle roofs; cost, each, \$4,000;
owner, J. H. Bishop, 49 Broadway New York*

*Central Ave., No. 8; 2 brick, 1 wooden frame;
architect, J. C. Merrill; builder, G. H. Chamberlain.*

*Central Ave., No. 6; 2 three-story frame stores,
tin roofs; cost, each, \$4,000; owner, John Repp,
store owner, on premises; architect, Th. Engelhardt;*

*Union St., N. Y. rd., e. 21st s Norman Ave.; four-
story frame tenement; tin roof; cost, \$5,000; owner,
James McCafferty, 102 New-Jersey st.; architect, Th.
Engelhardt; builder, John Fallon.*

*Clopper St., n. e. 86 s Harrison Ave.; 2 two-story
brick flats; tin roofs; cost, each, \$4,500; owner,
John Suderian, 30 Rose St.; architect, Frank
Holmberg.*

King St., No. 113, w. s. about 200' s Van Brunt St., three-story brick tenement, tin roof; cost, about \$5,500; owner, C. Smith, 115 King St.; architect, J. W. Galtrey; builder, T. McGillem.

Central Ave., No. 10, w. s. about 200' s Van Brunt St., storm and tenement, tin roof; cost, about \$5,500; owner, John Kolah, 121 Stanhope St.; architect, Frank Holmberg; builder, not selected.

Franklin Ave., No. 10, e. s. about 200' s Van Brunt St., frame tenement, tin roof; cost, about \$4,000; owner and builder, George Loeffler, 22 Jefferson St.; architect, H. Vollweiler.

Wallabout St., s. s. 250' s Harrison Ave., three-st'y
frame tenement, tin roof; cost, \$4,500; owner, M.
Haar, 331 Broadway; architect, H. Vullweiser.

Monroe St., s. e. cor. Lewis Ave., three-st'y brown-
stone dwell., tin roof; cost, \$8,000; owner, et al., Wm.
Godfrey, 123 Stayenent Ave.

Oakland St., e. s. 210' s Norman Ave., three-st'y
frame tenement, gravel roof; cost, \$3,800; owner,
Mrs. Barton; architect, L. Pappo; builders, D. H.
Hulse and S. B. ...

144-146 S. Randall.
 147-149 S. 1st, S. 38th & Sumner Ave., 3 two-story
 connected brown-stone dwells., tin roofs; cost,
 each, \$4,800; owner, F. Saddington, 462 Wil-
 loughby Ave.; architect and carpenter, F. D. Yro-
 man; mason, John Sofy.
 Broadway, Nos. 745 and 747 & S. 78th Locust St.
 2 four-story frame stores and tenements, tin roofs;
 cost, each, \$7,000; owner, J. H. Dawes and A. Nick-
 el, 143 Willoughby Ave. and 25 Stuyvesant Ave.;
 architect, Th. Engelhardt; builders, John Auer and
 Michael...

three-story frame, tenement; no. 17, s. 76° n Powers St., 2
\$1,000; owner and builder, Michael Meizer, 300 Als-
le St.; architect, Th. Engelhardt.

Three-story frame, 225° s 8, 225° s Broadway, three-story
frame, tenement; cost, \$1,500; owner, Gut-
tlob Mutt, on premises; architect, Th. Engelhardt;
builders, H. Bruchhauser and Chris. Seiler.

Johnson Ave., 1 e cor. Gardner Ave., three-story
Brock, 1 e Green St.; cost, \$2,000; owners, Sattle
builder, Peter H. Kelly.

South Third St., Nos. 68 and 69, 2 four-sty brick
tenements, tin roof; cost, each, \$7,000; owner, Peter
Hees, 64 Grand St.; architect, Th. Engelhardt;
builder, George Lebrhan & Son and George Hols.
Fourth St., s. e. 18th & Fifth Ave., two-sty
basement dwells.; also Fourth St., s. e. a Fifth Ave.,
2 two-sty brick tenements, tin roofs; cost, each,
\$1,000; owner, Magdalena Franz, 414 Third st.; archi-
tects, Parfitt Bros.; builder, J. P. Kenny.
Tompkins Ave., s. e. cor. Willoughby Ave., four-sty
brown-stone store and tenement, tin roof; cost,
\$13,000; owner and builder, B. C. Adair; architect,

J. D. Reynolds.
Summer Ave., w s, 74's Hart St., 3 two-st'y brick
d-wells, tin roofs; cost, each, \$3,500; owner, R. F.
Clayton, 461 Fourteenth St.; architect, W. F. Clay-
ton.

Twenty-first St., No. 331, between Sixth and Seventh Aves., three-story frame tenement, tin roof; cost, \$3,000; owner, John Stee, 335 Twenty-first St.; architect, W. H. Wirth; builders, T. Hess and Edwards Bros.

Mallon St., No. 1401, n e, N/ e Tompkins Ave.,

three-story brick and brown-stone store and dwell.
 tin roof; cost, \$1,500; owner, Wm. Graf, 1123 Fulton
 St.; architect, Th. Engelhardt; builder, E. T. Rutan.
 ALTKATZKINS, J. M., 100 W. 12th St., m w cor. Leonard St.,
 owner, John L. Witte, 397 Manhattan Ave.; archi-
 tect, Fred. Weber; builders, Doyle & Brass.
 SMITH ST., No. 180, three-story brick extension, tin
 roof, iron alterations, etc.; cost, \$50.0; owner,
 M. Louis, 100 Warren St.; builders, John Kersey
 & E. J. Yall.

Franklin Ave., No. 85, reduce height of building; also three-story brick extension, gravel and felt roof; cost, \$1,500; owner, Tutta-Percham Co.; architect, John Murphy; builder, not known.

Flaibush Ave., s. s. 375 & Fourth Ave., add two stories; cost, \$5,000; owners, G. F. and K. C. Swift, Boston, Mass.; architect, F. C. Muller; builder, B. F. Bailey.

BUILDING PERMITS.—Boese & Gloeckner, 2 four-sty
stores and dwells., 618-630 Milwaukee Ave.; cost,
20,000; architect, T. Kralo.
Schoenhofen Brewing Co., three-st'y barn, 23-29
Seward St.; cost, \$10,000; architect, Otto Maiz.
F. F. Hurst, three-st'y dwell., 579 LaSalle Ave.;
cost, \$12,000; architect, T. Kralo.
O. Carlstrom, two-st'y dwell., 805 Seymour St.;
cost, \$2,500.
M. Koegel, two-st'y dwell., 331 North Paulina St.;
cost, \$2,000.
A. Aldenstadt, two-st'y dwell., 564 Superior St.;
cost, \$3,300.

Dr. Ryan, two-st'y dwell., 293 Kim St.; cost, \$3,000; architect, G. S. Spoor.
Dr. Baxter, 3 two-st'y dwell., cor. Aberdeen and Monroe Sts.; cost, \$20,000; architect, J. W. Ackerman.
Wm. O'Brien, two-st'y barn, 3820-22 Wabash Ave.; cost, \$3,800.

P. Beck, two-st'y dwell., 214 Henry St.; cost, \$3,400.
P. Finnelly, two-st'y dwell., 276 Centre Ave.; cost, \$3,000.
E. Klemme, two-st'y flats, 129 Jefferson St.; cost, \$3,800.

8w. Evangelical Lutheran Salv. Church, one-st'y church, 2415-25 Portland Ave.; cost, \$20,000; architect, U. O. Hansen.

Wm. H. Hoyt, 2 four-st'y flats, 247-249 Illinois St.; cost, \$17,000; architect, A. Smith.
Dr. Craten, two-st'y flats, Wentworth Ave.; cost, \$3,200.

M. Seger, two-st'y store and dwell., 2901 Hanover St.; cost, \$2,500.

The Board of Education, three-st'y school-house,
cor. Illinois and Cass Sts.; cost, \$50,000; architect,
J. J. Flanagan.

T. F. Andrews, 5 two-st'y dwells., Rhodes Ave.; cost, \$20,000; architect, R. Ray; builder, J. Griffith.

Mary Cozzens, two-st'y flat, 383 Thirty-fourth St ;
cost, \$3,000.

F. Bartozy, three-st'y dwl., 112 Wesson St.; cost, \$5,000; architect, H. Klay.

W. D. Kerfoot & Co., 3 one-and-one-half-st'y cottages, Rice St.; cost, \$4,600.

M. Madousek, three-st'y store and flats, 635 Blue Island Ave.; cost, \$7,800.

E. Martin, two-st'y flat, 3058 Main St.; cost, \$4,000.

A. Leichtenberger, three-st'y store and flats, 336 Maxwell St.; cost, \$5,000.

George H. Edbrooke, 2 two-st'y dwells., Calumet Ave.; cost, \$10,000; architect and builder, Geo. H. Edbrooke.

The Chicago Gas Light & Coke Co., two-story stable,
Chatham St.; cost, \$10,000.
P. Pope, three-story store and flats, 781 West
Twelfth St.; cost, \$4,000.

St.; cost, \$3,800.

C. Carpenter, two-story flats, 22 North Ashland Ave.; cost, \$4,400.

J. Waderstradt, two-st'y dwell., 668 Hinman St.; cost, \$3,000.

J. H. Clough, four-sty medical college, 463-467 State St.; cost, \$25,000; architects, Willett & Pashley.
H. D. Runge, one-sty dwell., 79 Ewing Place; cost, \$1,000; architects, Runge & Runge.

brick
Peter
ardt;
F. Follansbee, two-st'y dwell. 2301 Calumet ave.,
\$3,600.

cost, \$3,000; architect, J. W. Ackerman.
H. L. Hill), two-story barn, 2316 Calumet Ave.; cost,
\$3,000.

P. C. Porter, five-story flats, cor. Cottage (Irving Ave. and Thirty-first St.; cor. 31st and Irving; architect, L. U. Quackenbush; builders, Geo. Lehman & Son.
P. Bauman, two-story small building.

FACTORY BUILDING, 702 Twelfth St.; cost,
\$2,500.

brick contracts for a five-story brick building on East Eighth St., for factory purposes; cost, \$31,500; architect, S. E. Dea Jardine.

HOUSE. — Plans are also being prepared by R. F. Lee, architect, for a frame dwelling-house on East Walnut Hill, for Miss Mollie Williams; cost, about \$4,000; also for a frame house on

warden, also for a frame house at Fairmount, for J. A. Cochran, Esq.; and, about 1880, Building Penitentiary. — During the past week the following persons have been released:

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

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BUILDING PATENTS.

[Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

- 301,850. KNOB-ATTACHMENT.—Joseph Bardsley, Newark, N. J.
 301,856. HANGING BELLS.—Gardiner Campbell, Milwaukee, Wis.
 301,863. BUNGALOW-ALARM.—John B. Chase, Aurora, Ill.
 301,868. SUPPLY-APPARATUS FOR WATER-CLOSETS.—Henry Dawson, Worcester, Mass.
 301,885. FIREPLACE.—Egbert Dowry Haven, Albany, Oreg.
 301,888. ELEVATOR-HATCHWAY OPENING MECHANISM.—Martin W. Hobbs, Cohasset, N. Y.
 301,890. SHUTTER-WORKER.—William Kaufman and Abraham Kaufman, New York, N. Y.
 301,894. CHIMNEY.—Chas. B. Lovell, Worthington, Minn.
 301,923. FIRE-ESCAPE.—Joseph Reisdorf, Cottleville, Mo.
 301,932. VALVE FOR WATER-CLOSETS.—William Smith, San Francisco, Cal.
 301,978. KEY-HOLDER.—Robert Duerr and George F. Kohn, Milwaukee, Wis.
 302,002. HYDRAULIC ELEVATOR.—Albert F. Knorr, San Francisco, Cal.
 302,022. BABIN-FAUCET.—John M. Peck, New Haven, Conn.
 302,030. FIREPLACE STOVE.—James D. Richards, Patriot, Ind.
 302,058. HINGE-MORTISE MACHINE.—Joseph D. Thurston, South Union, Mo.
 302,060. FIRE-ESCAPE.—Joseph H. Townsend and Edward A. Dubey, Brooklyn, N. Y.
 302,064. VENTILATION FOR BUILDINGS.—Henry Veltreier, Brooklyn, N. Y.
 302,067. SCREW-DRIVER.—Alfred D. Wallon, Mendham, N. J.
 302,075. ELEVATOR.—Jacob Winesour, Washington, Ind.
 302,092. VENTILATOR-CAP.—Joseph M. Bing, Millville, N. J.
 302,098. WEATHER-STRIP.—Gustav Burkhardt, Monro, Ill.
 302,102. ROLLING SCAFFOLD.—Dennison F. Chesebrough and William S. Whitman, New York, N. Y.
 302,105. CLAMP.—Alva N. Colt, Havana, N. Y.
 302,110. WATER-PIPE PROTECTOR.—Hirsch S. Dangler, Chicago, Ill.
 302,116. OVERFLOW TRAP FOR WASH-BASINS, BATH-TUBS, ETC.—William T. Jebb, Buffalo, N. Y.
 302,149. BURNING BRICK, TILE, ETC.—John K. Macleer, Detroit, Mich.
 302,151. FIRE-ESCAPE.—Christian E. Metzler, Philadelphia, Pa.
 302,152. SELF-CLOSING HATCHWAY.—Richard D. Thackston, St. Louis, Mo.
 302,159. CHAIR.—Samuel T. Wetman, Cleveland, Ohio.
 302,163. HANDLE FOR CHAIN-SAW.—John Quincy Adams, Jr., Blanchard, Mich.
 302,170. STEAM-BOILER FOR HEATING PURPOSES.—Frank H. Tinsler, Auburn, N. Y.

SUMMARY OF THE WEEK.

Baltimore.

ADDITIONS AND ALTERATIONS.—Wm. F. Weber, architect, has prepared plans for additions and alterations to store, 38 and 40 Lexington St., to cost \$10,000; Geo. Bunsack, builder.
 BUILDING PERMITS.—Since our last report twenty permits have been granted, the more important of which are the following:—
 E. Reichard, three-story brick building, s s Chow St., s w cor. Chapel St.
 Albert Nabholz, two-story brick buildings (squares), s w Vincent Alley, between Townsend and Mosher Sts.
 Mary H. Popp, three-story and mansard brick building, s e cor. Euter and Mott Sts.
 St. Michael's School, three-story brick building, w s Wolfe St., between Baltimore and Lombard Sts.
 E. L. Rosenauer, three-story brick building, s s Euter St., between Lombard and Watson Sts.
 G. W. Therman, 12 two-story brick buildings, s s Patterson Park Ave., commencing n e cor. Jefferson St., two-story brick buildings, s s Jefferson St., commencing s e cor. Castle St., and to two-story brick buildings, s s Castle St., s of Jefferson St.
 Louis Greb, two-story brick building, 317 x 44, and one-story brick building, 337 x 120, s s Boston St., opposite Burke St.
 J. J. Underhill, two-story brick building, 317 x 44, and one-story brick building, 337 x 120, s s Boston St., opposite Burke St.

Boston.

BUILDING PERMITS.—H. A. Adams, No. 20, Ward 19, for Mrs. Mary E. Goodroy, dwell., 12 x 16 and 20 x 42, two-story pitch; Henry C. Allou, builder.

Emerson St., near L St., Ward 14, for Wm. T. Eaton, dwell., 7 x 11 and 21 x 64 x 42, two-story pitch; Wm. T. Eaton, builder.
 East Fifth St., near L St., Ward 14, for Wm. T. Eaton, dwell., 7 x 11 and 21 x 64 x 42, two-story pitch; Wm. T. Eaton, builder.
 High St., near Ericsson St., Ward 24, for John E. Tuttle, dwell., 217 and 32 x 37, two-story mansard; Wm. T. Eaton, builder.
 Webster St., Nos. 52 and 84, Ward 2, for Mr. Galligan, 2 dwell., 22 x 35, three-story flat; C. & J. Ettridge, builders.
 Hushup St., s s, near Cambridge St., Ward 25, for Catherine Puelan, 2 dwell., 12 x 50 and 12 x 34, two-story pitch; James Keefe, builder.
 Faunceck St., near Winona St., Ward 21, for Nathan S. Wilbur, dwell., 197 x 27 and 30 x 40 x 19, two-story pitch; Nathan S. Wilbur, builder.
 Sharon St., n s, near Brown Ave., Ward 23, for Henrietta Wilson, dwell., 28 x 60 x 31 x 60, two-story pitch; W. S. Mitchell, builder.
 Nelson St., near Corlies St., Ward 21, for Ezekiel G. Ufford, dwell., 22 x 3 x 26, two-story pitch; Milotus H. Jackson, builder.
 Magnolia St., No. 34, Ward 20, for J. S. Wilson, dwell., 22 x 50, two-story pitch; C. E. Currier, builder.
 Court St., off Rand St., Ward 20, for John U. Kelley, dwell., 20 x 42, three-story flat; Chas. A. Jellison, builder.
 Stern St., No. 3, Ward 21, for Lorenzo Voss, dwell., 14 x 19 and 21 x 30, two-story pitch; Lorenzo Voss, builder.

Brooklyn.

BUILDING PERMITS.—Reid Ave., s s, 50 x Halsey St., two-story brick dwell., tin roof; cost, \$3,500; owner, Mrs. J. Walter Stone, Putnam Ave., near Field Ave., architect and builders, McKee Bros.
 Newell St., s s, 105 x Norman Ave., 5 three-story frame tenements, gravel and tin roofs; cost, each, \$1,000; owner and carpenter, R. B. Riker, 162 South Third St., mason, G. E. Burns.
 Palmietto St., n s, 125 x Central Ave., three-story frame dwell., tin roof; cost, \$5,000; owner, Miss Kate Austin, 2242 Second Ave., New York; builder, B. Morgan.
 Twenty-third St., s s, 125 x Fourth Ave., three-story frame tenement, tin roof; cost, \$4,500; owner, L. A. Tooker, 218 East One Hundred and Seventeenth St., New York; builder, John Sorenson.
 Greenpoint Ave., No. 165, n s, 275 x Manhattan Ave., four-story brick store and tenement, tin roof; cost, \$9,000; owner, Susanna Reiss, 157 Greenpoint Ave.; architect, J. Mulhall; builders, J. Hartford and Post & Walker.
 Graham Ave., s e cor. Powers St., two-story brick bakery, gravel roof, brick and stone cornice; cost, \$20,000; owner, A. B. Herliemans, on premises; architect, Th. Engelhardt.
 Powers St., Nos. 175 and 177, n s, 100 x Graham Ave., three-story brick stable, gravel roof, brick and stone cornice; cost, \$10,000; owner and architect, same as last.
 Monroe St., s s, 175 x Throop Ave., 3 two-story brown-stone dwell., tin roof; cost, each, \$4,000; owner, etc., W. J. C. Miller, 229 Spunner Ave.
 Flushing Ave., s s, 307 x W. Jackson St., 3 three-story frame tenements, tin roofs; total cost, \$11,000; owner, Sigmund Jacob, 732 Flushing Ave.; architect, Frank Holmberg, builder, Wm. Hellmann.
 St. James Pl., w s, 125 x De Kalb Ave., 3 three-story brick dwell., tin roofs; cost, each, \$5,000; owner, Jas. Callahan, 321 Washington Ave.; builder, Joseph I. Kirby.
 Graham Ave., Nos. 350 and 351, n w cor. Consolida St., 2 three-story frame stores and tenements, tin roofs; cost for both, \$9,500; owner, Louisa Haupt, 205 Front St.; architect, Th. Engelhardt; builder, Jacob Schuch.
 Grand St., n e cor. Catherine St., three-story frame store and tenement, tin roof; cost, \$4,500; owner, James Follmer, cor. Grand St. and Broadway Ave.; architect, Th. Engelhardt; builders, Young & Lamb.
 Central Ave., No. 130, w s, 125 x Myrtle St., three-story frame store and tenement, tin roof; cost, \$4,000; owner, Barbara Winkler, 11 Evergreen Ave.; architect, Th. Engelhardt; builders, Frank Blatz and John Ruogor.

Chicago.

STORERS.—Adler & Sullivan are architects of the six-story store-building, 68 x 171, to be built on Randolph St., near Wabash Ave., for Martin Ryerson; Lake Superior brown-stone, iron, and plate glass; cost, about \$125,000.
 Adler & Sullivan have just completed plans for a six-story business-building on Market St., between Madison and Monroe Sts., 80 feet square; Lake Superior brown stone, Anderson pressed-brick, iron and glass; probable cost, \$200,000; owner, A. F. Troescher, of New York.
 BUILDING PERMITS.—Soper Lumber Co., two-story office and dwell., 733 LaSalle St.; cost, \$1,500.
 Holden Ave. Presbyterian Church, church, 195 Holden Ave.; cost, \$1,000.
 H. D. Warner, three-story dwell., Prairie Ave.; cost, \$3,000; architect, Burdham & Root.
 P. Bucher, three-story store and flat, 274 Division St.; cost, \$5,000; architect, N. Gerten.
 J. Schuppert, three-story store and dwell., California Ave.; cost, \$4,000.
 O. Kreig, two-story dwell., 815 Twelfth St.; cost, \$2,500.
 F. McMahon, three-story barn, 46 and 48 Fourth Ave.; cost, \$13,000.
 C. Zuber, three-story store and flats, 755 Halsted St.; cost, \$6,000; architect, P. Bulin.
 M. A. Delany, two-story dwell., 537 Harburt St.; cost, \$2,000; architect, J. Otter.
 P. Schoenhofen, three-story store and dwell., Milwaukee Ave., cor. Ashland Ave.; cost, \$50,000; architect, H. Kleg; builder, F. Hansen.
 St. Hurick, two-story dwell., 478 and 478 Holden Ave.; cost, \$10,000; architect, H. L. Gay; builder, J. Pedgley.
 C. L. Lowe, two-story dwell., 720 Chicago Ave.; cost, \$2,000.
 D. H. Haeon, 2 two-story dwell., 3201 and 3203 Rhodes Ave.; cost, \$8,500; architect, Branch.

A. Landgreen, two-story flats, Sedgwick St.; cost, \$4,000.
 U. Thiet, three-story dwell., Wells St.; cost, \$8,000; architect, A. F. Boos.
 J. W. Maynard, 2 three-story dwell., 889 and 891 Adams St.; cost, \$12,000; architect, J. M. Van Osdel & Co.
 F. Faus, two-story dwell., 3039 Bondfield St.; cost, \$2,500.
 Brown Bros. Mfg Co., three-story factory, 69 and 71 West Jackson St.; cost, \$21,000; architect, C. M. Palmer.
 H. Sheeler, two-story dwell., 237 Third Ave.; cost, \$4,000.
 A. Hanson, three-story flats, 558 Wells St.; cost, \$6,500; architect, F. W. Anderson; builder, G. Brown.
 H. Degrazia, addition, 208 Sangamon St.; cost, \$3,100.
 St. A. Waters, two-story flats, 2943 South Park Ave.; cost, \$5,000; architect, M. L. Deers.
 J. Havacek, three-story store and dwell., 448 Twelfth St.; cost, \$5,000.
 F. Stanek, two-story dwell., 667 Centre Ave.; cost, \$3,500.
 Kokes & Smreka, 2 two-story stores and dwell., 811 and 813 Ashland Ave.; cost, \$11,000.
 U. Cameron, two-story dwell., 1024 Monroe St.; cost, \$5,000.
 M. Gross, two-story flats, 342 Rush St.; cost, \$5,000.
 U. Hulvan, three-story flats, 81 Madison St.; cost, \$10,000.
 C. Obery, three-story flats, 200 May St.; cost, \$4,500; architect, L. Borge.
 J. H. Ramsfeld, three-story flat, 125 Townsend St.; cost, \$5,400; architect, J. Otter.
 J. Johnson, 6 cottages, Hirsch St., cor. Leavitt and Shubert Sts.; cost, \$7,000.
 Gottfried Brewing Co., five-story brewery, 2231-2235 Stewart Ave.; cost, \$100,000.
 A. F. Troescher, six-story warehouse, 117-123 Market St.; cost, \$70,000.
 E. B. Case, two-story dwell., 540 Jackson St.; cost, \$5,500.
 F. Hoenmichel, 3 three-story stores and dwell., 638 and 639 Blue Island Ave.; cost, \$14,000; architect, P. V. Ruehl.
 J. Bartel, two-story dwell., 173 and 175 Ramsey St.; cost, \$3,000.
 M. Kussmann, two-story dwell., 985 Blue Island Ave.; cost, \$3,000.
 H. Byrne, 2 three-story dwell., 2628 and 2630 Wabash Ave.; cost, \$18,000; architect, C. Chapman.
 J. L. Stagg, 3 two-story dwell., 152-158 Leavitt St.; cost, \$10,000; builder, J. C. Anderson.
 C. Ummach, two-story dwell., 278 North May St.; cost, \$5,000; architect, Fromann & Johnson.
 A. Svenson, three-story dwell., 340 West Erie St.; cost, \$5,000.
 M. & J. Dillon, two-story dwell., 3133 Wentworth Ave.; cost, \$3,500.
 Chicago City Railway Co., addition to barn, 2900-2912 Pilsner St.; cost, \$2,500; builder, A. B. Cook.
 H. Toll, three-story store and flats, Archer Ave.; cost, \$10,000; architect, J. F. Debr.
 City of Chicago, three-story engine-house; cost, \$11,000.
 O. Lange, two-story dwell., 158 West Division St.; cost, \$4,500.
 M. Hyerson, six-story warehouse, 45 to 49 Randolph St.; cost, \$50,000; architects, Adler & Sullivan; builders, Barney & Rodatz.

Cincinnati.

STORERS.—H. W. Derby, Esq., is to build a new store and office building, south-east corner of Fourth and Elm Sts.; the lot is 75' on Fourth St. by 140' on Elm; the building will be seven stories high, will cost about \$100,000, and is in charge of Samuel Hannaford, architect.
 BUILDING PERMITS.—A. Kessel, one-story brick dwell., 431 Vine St.; cost, \$3,500.
 Mike Joker, one-and-one-half brick dwell., Mick-lev Ave.; cost, \$10,000.
 Lev. Baumgarten, three-and-one-half-story brick dwell., 107 East Second St.; cost, \$3,000.
 J. B. Washburn, three-story brick dwell., cor. Blue Rock and Turrel Sts.; cost, \$9,000.
 J. H. Thowar, three-story brick dwell., 472 George St.; cost, \$5,000.
 A. B. Rittnerman, two-and-one-half-story brick dwell., cor. Ohio Ave. and Calhoun St.; cost, \$6,000.
 H. Hulverson, two-and-one-half-story brick dwell., 141 Loth St.; cost, \$4,000.
 H. Wrigman, three-story brick dwell., Dandridge St.; cost, \$5,500.
 John Dorschner, three-story brick dwell., cor. Twelfth and Jackson Sts.; cost, \$2,500.
 T. F. Moore, two-story frame dwell., Gilbert Ave.; cost, \$3,500.
 H. W. Derby, seven-story brick dwell., cor. Fourth and Elm Sts.; cost, \$10,000.
 Baptist Church Congregation, cor. Kemper Lane and McMillan Sts.; cost, \$15,000.
 Mrs. Stauder, three-story brick dwell., cor. Liberty and Elm Sts.; cost, \$4,000.
 A. H. Hosenmeyer, three-and-one-half-story brick dwell., Mulberry St.; cost, \$5,400.
 Anchor White Lead Co., two-story brick building, Culvert St., bet. Fourth and Fifth Sts.; cost, \$3,000.
 Paul Brungman, two-story frame dwell., cor. Spring and Locust Sts.; cost, \$4,000.
 Morris Whitto, four-story brick dwell., cor. Court and Vine Sts.; cost, \$18,000.
 E. B. Quinn, two-and-one-half-story brick dwell., cor. Corry and Jefferson Sts.; cost, \$3,000.
 James Lauer, two-story brick dwell., cor. Cutter and Line Sts.; cost, \$5,000.
 Louis Glenn, two-story frame dwell., 480 Easter Ave.; cost, \$2,000.
 Jas. Oker, four-story brick dwell., 735 Central Ave.; cost, \$8,000.
 John Goror, four-story brick dwell., 365 State Ave.; cost, \$2,500.
 Thos. Burke, two-story brick dwell., cor. Lane and Locust Sts.; cost, \$3,200.
 John Kilgour, three-story brick dwell., cor. Hatch St. and Observatory Road; cost, \$6,000.

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THE AMERICAN ARCHITECT AND BUILDING NEWS.

VOL. XVI.

Copyright, 1884, JAMES R. OSGOOD & CO., Boston, Mass.

NO. 449.

AUGUST 2, 1884.

Entered at the Post-Office at Boston as second-class matter.

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THE letter of Mr. Wood published in our last issue perhaps deserves some notice at our hands. The insinuation that the *American Architect* is not "alike to all men" we suppose refers to the old accusation that it is published in the interest of members of the American Institute of Architects. As to this, we will only say that we find that up to the close of 1883 we had published designs contributed by four hundred and twenty architectural firms, while the membership of the Institute amounted at that time to one hundred and sixty-five individuals. — the total membership from the foundation only amounting to three hundred and seventy. Mr. Wood's special grievance, however, is our publication of "photo-caustic" prints from nature. These we freely admit are not satisfactory in every respect, and our attempt to use negatives furnished by amateurs or professional photographers in other cities unfamiliar with the requirements of the process, has reduced the average of excellence in a very undesirable degree. Still with all its deficiencies the process gives the grouping, mass, proportion and general effect of existing buildings in a way that cannot be shown better, except by photographs or gelatine prints, and we believe that as the process is perfected, as all processes are, less and less of the detail will be lost. Our belief has been that the publication of a single photo-caustic page with each issue might be a welcome relief from the monotony of pen-drawings. Still, we are open to correction.

WE are often asked why we do not publish more gelatine prints, such as the view of the North Easton Town-Hall, and not infrequently we hear laments that the "*Sketch Books*" were discontinued. We are ready and able at any time to print our illustrations from gelatine, the presses and men are ready, and there is an infinity of subjects. Why do we not do it, then? Simply because of our unbelief that our subscribers would be willing to pay for such illustrations. The "*Sketch Books*" contained forty-eight gelatine prints each year, and the subscription price was \$6.00. The *American Architect* contains at present more than five times as many illustrations, to say nothing of the text, for the same price. Now it is not supposable that our subscribers would pay five times the present subscription for the sake of having gelatine prints, nor yet two-and-one-half times, at which price we might be willing to make the experiment. But as we may be quite in error, we will ask our subscribers in all seriousness how many of them would be willing to pay, say, one dollar more for the sake of having one gelatine print from nature added to our illustrations once each month? This question is worthy of an answer, as it might be possible to print a special edition for those who were willing to pay the extra charge, always supposing that a satisfactory number of subscribers are willing to incur the extra expense.

MR. SAMUEL SLOAN of Philadelphia, one of the best known architects in the country, died in Raleigh, North Carolina, July 19, at an advanced age. Although belonging, like other architects who began business fifty years ago, to

a school which has ceased to excite commotion, in the artistic world, Mr. Sloan was one of the most distinguished of that school, and his career, in activity and usefulness, was one which the ablest of the younger generation might be glad to emulate. Indeed, many of the younger architects throughout the country owe something of their knowledge to the excellent books in which he sought to convey to others the results of his experience, and he deserves the credit of having been one of the first persons in the country to perceive the deficiency in technical literature which he afterwards endeavored to supply by the publication of his *Architectural Review and Builder's Journal*. Among the professional works which he executed were the old Masonic Temple and the Tradesmen's National Bank, in Philadelphia, the State Exposition Building and the Governor's Mansion in North Carolina, many private houses, and, particularly, a great number of hospitals and asylums in various parts of the country.

THE *Hydraulic and Sanitary Engineer* contains an excellent report of the Convention of the National Association of Master-Plumbers, held recently in Chicago, in which we find several things of considerable interest to architects. In the first place, we take satisfaction in saying that the business of the Convention seems to have been conducted with remarkable skill and good sense, and all those who attended it, or who read the reports of it, must feel that the interests of the trade which the Association represents were perceptibly advanced by the meeting. In the selection of the principal officer of the Association for the next year the Convention appears also to have been remarkably fortunate. Mr. Andrew Young, of Chicago, the new President, having already distinguished himself by his patriotic and sensible suggestion that the members of the great trade at the head of which he stands should be called upon in case of need to serve as auxiliary sanitary officers for the benefit of the community to which they belong. No one knows better than an architect how well qualified good plumbers are for rendering such service; and if a pestilence should drive the people of our great cities, under fear of death, to undertake at last the long neglected task of purifying their material existence, we could hardly urge too strongly the adoption of President Young's idea, and the placing of the details of domestic sanitation mainly in the hands of a commission of such plumbers as those who are fortunately already numerous in this country.

HAVING done this justice to the evident desire of the master-plumbers to advance their art as well as their own interests, we feel ourselves obliged to criticize some of the means by which, as we understand them, they hope to forward the latter. We have before spoken of the opportunities for fraud which were afforded by the enormous differences between the printed list-price of some kinds of plumber's goods and the actual cost, which was generally concealed, by collusion between the manufacturers of such goods and the plumbers, from those who paid for them. Unlike mercantile business, a great deal of the best plumbing-work is carried on under a confidential and honorable relation between the plumber and the man who employs him, and who willingly pays him, as compensation for his skill and time, a percentage on the cost of the material and labor. This percentage is generally intended to be a liberal one, and the obvious duty of the plumber who works under such an agreement is to take from his employer a fair profit on the materials and nothing more. Many plumbers, as we know, scorn to take advantage of the opportunity which the dealers, by concealing the real cost of their goods, intend to afford them for obtaining, unknown to him, an exorbitant profit from their confiding employer; but others, by presenting the list-prices as the basis of their bills, succeed, until they are found out, in paying themselves much more liberally than they deserve. Sooner or later, however, they get found out. The persons whom they have fleeced meet with others more experienced in the ways of the world, or perhaps have their own eyes opened by the offer, which we have known made, of a rival plumber to do certain work for less than the price-list cost of the materials alone, and a revelation of this kind, whatever the Master-Plumbers' Association may think of it, excites in the mind of the individual who experiences it a lively feeling of having

BUILDING PERMITS.—The following permits, amounting to \$5,000 or more, have been granted since last report:

W. E. Brown, roller-skating rink, East Larned St.; cost, \$25,000.

Peter Helrick, new St. Mary's Church, cor. Logan and Antoine sts.; cost, \$65,000.

H. J. Humphreys, brick dwell., 38 Henry St.; cost, \$6,000.

Hugh McMillan, new stores, 407-9 Woodward Ave.; cost, \$20,000.

Thomas Payne, three-story brick dwell., 38 Willis Ave.; cost, \$8,000.

Mason & Rice, brick dwell., Parsons St.; cost, \$6,200.

J. L. Cole, three-story brick building, 63 Alexandrine Ave.; cost, \$9,000.

W. J. Davis, three-story double brick building, 232 Fourth St.; cost, \$6,000.

William Myll, three-story brick dwell., 82 Macomb St.; cost, \$10,000.

William Scott & Co., three-story brick dwell., 619 Cass Ave.; cost, \$6,000.

M. W. Seavel, three-story brick block, 92-91 Grand Ave.; cost, \$20,000.

Nupperman & Clark, two-story brick dwell., 568 Jefferson Ave.; cost, \$5,000.

Edgewood & Co., three-story block of eight dwells, on Second Ave.; cost, \$24,000.

Charles Goodnow & Co., two-story double brick dwell., 241-243 Fourth St.; cost, \$6,000.

W. C. Gault, three-story brick dwell., 78 80 West Adams Ave.; cost, \$5,400.

August 9, 1884

with each other, and about three-eighths of an inch broad, and a partition connecting the two sides together, about one-eighth of an inch wide, forming on each side a groove near three-sixteenths by one-eighth of an inch and six feet long. At the present day most glaziers buy their calmes at the warehouse. The ancient calmes were apparently cast in a mould. Antique calmes are nearly of one uniform width, and much narrower in the "leaf" than modern leads. "That this was the case," says Gwilt, "can be proved not only by the existence of the original leads themselves, but more satisfactorily, perhaps, by the black lines drawn upon the glass,



Figs 3 - 4.

with which the glass-painters were accustomed sometimes to produce the effect of leads without unnecessarily cutting the glass." A, in Figure 4, represents an ancient lead of the usual width; B is a section, consisting of the "leaf" a and b, and the "core" c; C is the section of a German calme of the early part of the fourteenth century; D is a piece of modern "fret" lead of the ordinary width, and which is now considered very narrow, and L is the section. The process of compressing the modern calme between the rollers to the proper dimensions makes them more rigid than the old leads, which were probably cast in a mould. Calmes even narrower than these are often found in ancient work. An entire window at Stowting church, Kent, probably of the earlier part of the reign of Edward IV, was leaded with leads of the section given at F. The other calme G is of the early part of the reign of Henry VI, and is from Mells Church, Somersetshire, where similar lead is commonly used.— *Building News*.

THE ILLUSTRATIONS.

LIBRARY FOR HENRY FIELDS, ESQ., CHICAGO, ILL. MESSRS. BURNHAM & ROOT, ARCHITECTS, CHICAGO, ILL.

RECEPTION-ROOM FOR H. J. WILLING, CHICAGO, ILL. MESSRS. PALMER & SPINNING, ARCHITECTS, CHICAGO, ILL.

SEE article on "American Interiors" elsewhere in this issue.

CLOISTERS AT ARLES AND ELNE, FRANCE, AND AT GERONA, SPAIN.

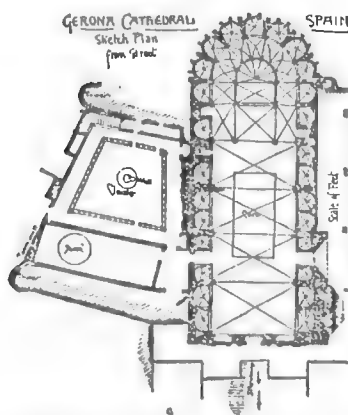
SKETCHED BY MR. R. W. GIBSON, ARCHITECT, ALBANY, N. Y.

FOR description see article on "Spanish Architecture" elsewhere in this issue.

HOUSE AT PASSAIG, N. J. MESSRS. APPLETON & STEPHENSON, ARCHITECTS, BOSTON, MASS.

SPANISH ARCHITECTURE.—XIX.

BARCELONA.—GERONA.



A FLOURISHING seaport, a prosperous lively city where energy and luxury seem to alternate with equal intensity, a series of dusty active manufacturing suburbs, and a great steep hill crowned with an almost unassailable fortification, these are the prominent things among the many which unite to make Barcelona the capital of the province of Catalonia, and the busiest city in Spain. It is claimed that a Lul-etanian city was founded here by Hercules, 400 years before Rome began making history, and probably very few will want to deny its good old age. The Romans made it one of their colonies, and after Amilcar Barca, father of Hannibal, called it Barcino. Afterward the customary experience of Spanish cities befell it, Moors and Castilians made war one after the other; and in later days the French conquered it with a vengeance almost more barbarous

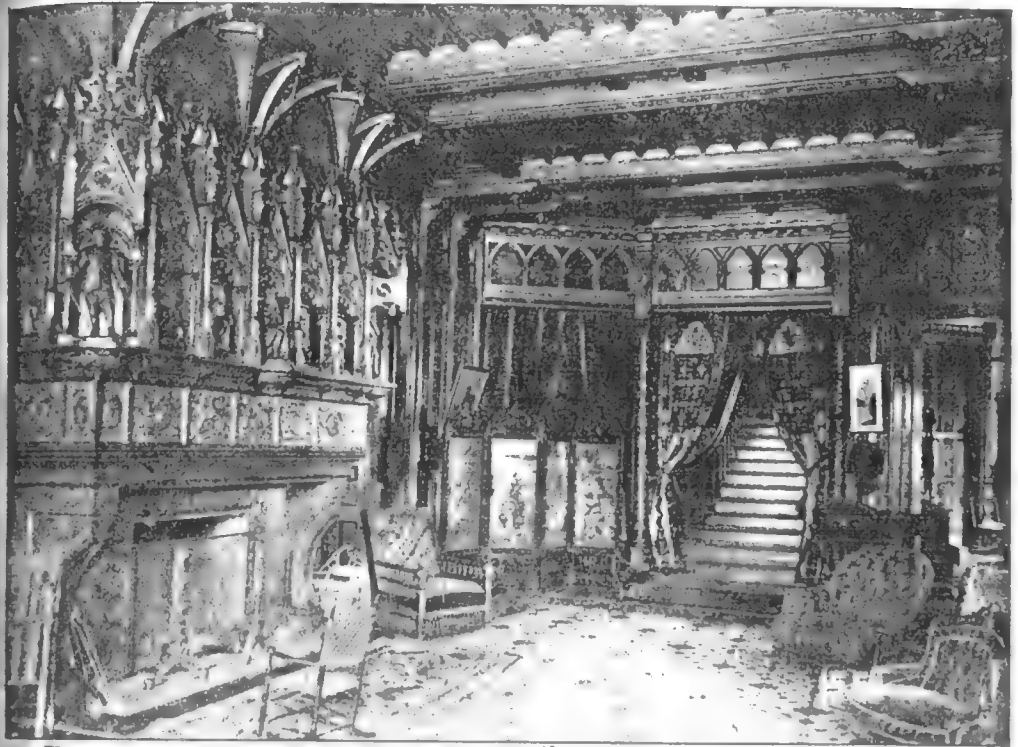
and destructive, and its population was always an effervescent one. To-day, it is a republican, orderly, irreligious city, at peace with itself and its neighbors, yet it is a ready hot-bed of revolution and uncontrollable riot, the seeds of which are only dormant. The Catalonian is unlike the Castilian in that he does not abhor work, indeed he is apt to abhor the Castilian and the "foreign" government; he works and thrives, and thinks, and occasionally loses his temper like a bee annoyed by butterflies. Roman restraint has been thrown aside in the progress of freer thought; but unfortunately from one extreme of religious tyranny these people tend to go to the other of irreligious license, no more moderate faith taking the place of the exploded belief. Such is frequently the case in those parts of Europe where the Roman Church endeavors to continue her old despotic method of ministry.

As a city Barcelona is handsome and pleasant. From the crowded harbor where lie numerous English, French, Spanish, and Italian ships, a fine broad avenue leads inland forming the main street whose name "Rambla" tells at once its Moorish derivation, and its river bed origin. It has a broad central promenade lined with grand old trees; a roadway on each side, and then footways bounded by the windows of well-furnished shops and innumerable cafés open to the cool air of the shady thoroughfare. The modern architecture has much of French character, yet with a certain independence and much success in experiments with Moorish and other styles; but there is not much spontaneous unaffected art. Of ancient architecture there is enough to occupy the student or architect for some few days, although it is not so important as in some other places, and when I was there the enervating heat of the weather and the attractions of the sea-bath and siesta by day, and of the "Rambla" by night, seemed to lessen still more the importance of the ancient buildings. I did no sketching, only a few notes interrupted the pleasures of my vacation. The cathedral of the early fourteenth century is an interesting edifice with many noteworthy features. But I was disappointed in its general effect after reading a too laudatory description. It is large; a nave of four bays with aisles, a crossing and transepts which are carried up as towers, a *capilla mayor* of two bays, with a handsome polygonal apse and aisle in the French fashion, all surrounded by small chapels (thirty at least around the building), constitute this cathedral. It is of considerable dimensions, 300 feet by about 130 feet external measurements, and its style is a rich Geometrical Gothic, with just the commencement of those weaknesses of too many and too slender shafts and mouldings by which the architects of this period began the decline of their style. The quality aimed at was elegance, and to it dignity was sacrificed. But the chief fault is in the utter disproportion of the triforium and clerestory, both of which are crowded into the arch spandrel under the vault and over the capitals. They are therefore of insignificant size, and although the resulting small windows are appropriate to the climate, one cannot help wishing that they had been contracted in some other manner. The arches of the apse are not filled in with screens, and the effect of the openings is certainly good. There are many objects to engage attention, such as furniture, and monuments, altars, and shrines, and stained-glass. The cloisters too, are handsomely proportioned and very pleasant places for rest and meditation, but they are not of great value to the student as their details are of no merit. The octagonal towers over the transepts are good, and furnish a useful hint for treatment where it is desired to emphasize this portion of the church, and circumstances preclude the possibility of a central dome or lantern.

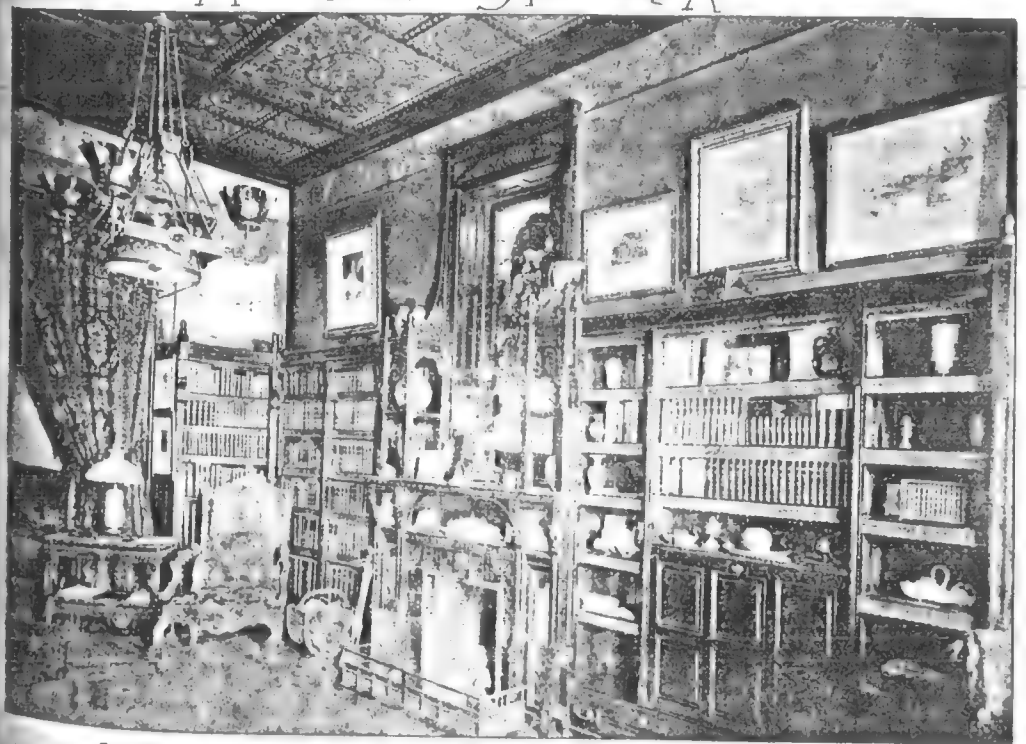
The Church of Sta. Maria del Mar is a rich church of late Geometrical style. It is of great size for its simple plan, being about 270 feet long and 120 feet wide, composed of nave and "capilla" with polygonal end with aisles, but without transepts. The nave is in four great square bays, an arrangement which seems to me always to lose much of the charm of perspective which a greater number of shorter bays develops. It dates from the end of the fourteenth century, has a fine western doorway with elaborate mouldings, and a richly traceried circular window over it. This facade is flanked by two octagonal towers, or rather turrets, since they are small in comparison with the building, but apart from that they are of pleasing design. But Sta. Maria and the cathedral and most churches in Barcelona have a strange incomplete appearance owing to their having no apparent roofs. Gables are rare. Buttresses run up with soaring strength and suddenly stop short, and the buildings look as if they had been burned out, and the high roofs had fallen. It is because they are mostly covered with a kind of paving laid immediately upon the backs of the vaults,—not the original intention, evidently, but an economical inartistic kind of repair, the roofs decayed and then they were dispensed with. There is an old church now desecrated, but still known as Sta. Agata which has some good points. It is small, with traceried windows high up (an always successful arrangement), and has a wooden roof supported by cross arches of masonry. Corbels upon the cross walls over the arches support purlins, and these the rafters. It is a method of construction intermediate between the masonry vault and the roof entirely of wood, and a very commendable one. Another curious old church is that of San Pablo del Campo, and yet another San Pedro de las Puellas. Both in early Romanesque style, and of small size.

It is scarcely necessary to say that there are in the older parts of Barcelona many "odds and ends" of antique work. The "Casa Consistorial" is of late Gothic with one of those small doors arched with vousoirs of enormous height, and elaborate traceried windows.

¹ By Robert W. Gibson, Travelling Student of the Royal Academy. Continued from page 46, No. 418.



RECEPTION ROOM for H. J. Willing Esq. Chicago, Ill.
Messrs. Palmer & Spinning Archts.



LIBRARY for Henry Fields Esq. Chicago, Ill.
Messrs. Gurnham & Post Architects

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

- 302,947. BRICK-MACHINE.—FRANCIS O. BURRELL, La Salle, Ill.
 302,948. ROOF-BRACKET.—Eben W. Dailley, West Berlin, Mass.
 302,949. TOOL-STOCK.—Daniel F. Dwyer, Brooklyn, N. Y.
 302,950. BOLT-HINGE.—Richard H. Garland, Chicago, Ill.
 302,951. HEATING APPARATUS.—Isaac Kirk, Warren, O.
 302,952. FLY SCREEN DOOR ATTACHMENT.—Philo H. Lamborn, West Liberty, Ia.
 302,953. WINDOW TRUSS.—Alexander McMillan, Lowell, Mass.
 302,954. PAPER PUNCH BLANK.—William E. Rockwood, Indianapolis, Ind.
 302,955. PAPER PUNCH.—William E. Rockwood, Indianapolis, Ind.
 302,956. KITE KITE-FINISHING MACHINE.—Othman F. Booth, New Haven, Conn.
 302,957. IRON HOLLOW.—Klar O. Hyman, Rochester, N. Y.
 302,958. AUTOMATIC REFRIGERATOR FOR FIRE-EXTINGUISHING.—Walter Baker Fowler, Lawrence, Mass.
 302,959. SMOKE-DRIVER.—George W. Hall, Minneapolis, Minn.
 302,960. FIRE-ESCAPE.—Richard Hammill, Chicago, Ill.
 302,961. OPAQUE OR SEMI-TRANSPARENT ENAMELED GLASS OR COLORED GLASS.—Ernst Franz Wilhelm Hirsch, Radeburg, Saxony, Germany.
 302,962. EARTH-CLIMBER.—Cyrus D. Lane, Batavia, N. Y.
 302,963. BINDER.—James J. McComb, Dobb's Ferry, N. Y.
 302,964. PILE FOR THE MANUFACTURE OF BRAMS.—James K. McDonough, Philadelphia, Pa.
 302,965. FIRE-ESCAPE.—Lester G. Pettit, Plateau, Pa.
 302,966. FIRE-ESCAPE.—George Ryer, Rocky Hill, Conn.
 302,967. STONE-CUTTER'S Mallet.—Jas. Thompson, Boston, Mass.
 302,968. COMBINED RULE AND SQUARE.—George B. Unland, Ocala, Fla.
 302,969. HEATING APPARATUS.—Jas. R. Mason, New York, N. Y.
 302,970. MASON'S AND BUILDER'S SCAFFOLD.—Orlando Davis, Gloversville, N. Y.
 302,971. LOCK.—Dexter W. Parker, and Edmond B. Slater, Meriden, Conn.
 302,972. SELF-CLOSING HATCHWAY.—Richard D. Thacker, St. Louis, Mo.
 302,973. KILN FOR BURNING BRICKS, TILES, ETC.—Garrett Davis Wilgus, Lexington, Ky.
 302,974. COMPOUND FOR MAKING BRICKS, ARTIFICIAL STONE, ETC.—Henry A. Cooke, Ocala, Fla.
 302,975. INDICATOR FOR ELEVATORS.—Thomas S. Young, New York, N. Y.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report seventeen permits have been granted, the more important of which are the following:—
 C. H. Michelman, 3 three-story brick buildings, e s Burke St., n of Lancaster St., and 3 two-story brick buildings in rear, fronting a Port Alley.
 Anna Fleming, three-story brick building, and two-story brick stable, n w cor. Middle and McKim Sts.
 Chas. Roche, 2 two-story brick buildings (squares), e s Dallas St., between Chase and Biddle Sts.
 Miller & Coleman, 12 two-story brick buildings, a w s Bayard St., commencing a cor. Carroll St.; 10 two-story brick buildings, e s Carroll St., a w s Bayard St.; and 12 two-story brick buildings, n w s Bayard St., e of Bayard St.

Boston.

BUILDING PERMITS.—Brick.—Hammond St., Ward 19, for City of Boston, school-house, 32' x 124' 4", three-story pitch; Sampson & Clark, builders.
 Brattle St., No. 8, Ward 19, for Joseph Feldman, dwell., 42' x 47' 6", five-story flat.
 Purchase St., Nos. 25-103, cor. Oliver St., Ward 12, for F. H. Austin's heirs, mercantile, 44' and 31' x 41' five-story flat; Robert R. Mayers, builder.
 Albany St., near East Concord St., Ward 16, for Mass. Homeopathic Hospital, hospital, 25' 6" x 34', one-story pitch; H. Connerly & Co., builders.
 Newbury St., No. 152, Ward 11, for Albert A. Pope, club-house, 24' x 30' 4", three-story flat; Vinal & Dodge, builders.
 Purchase St., High St., and Belcher Lane, Ward 12, for John L. Whitting, manufactory, 70' and 60' x 55' six-story flat; G. W. Pope, builder.
 Wood.—Rockwell St., near Washington St., Ward 24, for R. G. Parker & Co., green-house, 9' x 130'; putting shed and storage, 16' x 40'; green-house, 16' x 60', one-story pitch; R. G. Parker & Co., builders.
 Newbury St., No. 13, Ward 12, for C. E. Rodman, dwell., 16' x 17' and 23' 6" x 30' 6" x 32', two-story pitch.
 Lexington St., cor. Prescott St., Ward 1, for Mrs. F. E. Demmeck, dwell., 15' x 35' and 21' 6" x 30', two-story mansard; John C. Fraus, builder.

Tremont St., No. 1600, cor. Worthington Pl., Ward 22, for Bernard Dooley, dwell., 24' x 45', three-story flat; Fred McKenzie, builder.
 Unnamed Pl., near Prescott St., Ward 1, for Wilbur Goodwin, 3 dwellings, 12' x 15' and 20' x 30', one-story pitch; Wilbur Goodwin, builder.
 Meridian St., No. 420, Ward 1, for W. T. Jackson, and 20' 4" x 45' 6", two-story mansard; David McPherson, builder.
 Danforth St., near Boylston St., Ward 23, for Dougald McDonald, dwell., 15' x 30' and 21' x 30', three-story flat; Dougald McDonald, builder.
 East Fourth St., Nos. 592-596, Ward 14, for Lyman Locke, 2 dwellings, 15' x 20' and 20' x 40', three-story flat; Lyman Locke, builder.
 Beane Ave., near River View Ave., Ward 11, for Fred K. Gibson, dwell., 24' x 30', one-story mansard; Fred K. Gibson, builder.
 Sunderland St., cor. Blue Hill Ave., Ward 21, for Leonidas Murray, dwell., 24' and 32' x 30', two-story pitch; J. Philbrick, builder.
 Brookline Ave., near Green St., Ward 23, for J. P. Shaw, stable, 36' x 18', two-story pitch; J. P. Shaw, builder.
 Terrace Ave., near Orient Ave., Ward 1, for F. M. Wessgate, dwell., 21' x 25' and 25' x 30', two-story pitch; Thos. Yeomans, builder.
 Saratoga St., Nos. 61-65, Ward 1, for T. C. Powers, 2 dwellings, 17' x 27' and 21' x 34', two-story mansard; T. C. Powers, builder.
 Brown Ave., cor. Prospect St., Ward 23, for John L. Dakin, dwell., 21' 6" x 27' 6" x 35' 6", three-story pitch; W. H. Mitchell, builder.
 Porter St., near Brown St., Ward 2, for F. D. Edmunds, storage, 20' x 60', one-story pitch; John Edmunds, builder.
 Pond St., near May St., Ward 23, for Alfred Bowditch, dwell., 38' x 45' and 54', two-story pitch; Sam'l D. Horry, builder.
 Washington St., Nos. 48-50, Ward 21, for Nathan P. Ryder, 3 dwellings, 20' 6" x 28' 6" x 32', two-story pitch; J. H. Dolan, builder.
 Crescent Ave., opp. Spring Garden St., Ward 24, for Geo. R. Clarke, dwell., 11' x 14' and 22' x 27', one-story mansard; Geo. McCall, builder.
 North Harvard St., near Cambridge St., Ward 25, for Miss S. F. Boynton, 2 dwellings, 17' 6" x 41' 6", two-story pitch; W. H. Horry, builder.
 Pennington St., No. 239, Ward 22, for Anthony Hankey, dwell. and store, 25' x 50', two-story flat; McDonald & Tobin, builders.
 Washington St., No. 2398, Ward 21, for Nelson Goodwin, blacksmith shop, 22' x 25', one-story pitch.
 West Third St., No. 203, Ward 13, for John Swanton, dwell., 20' x 38', two-story flat.
 Shepherd St., near Washington St., Ward 25, for John Fay, dwell., 18' x 32', two-story pitch; Daniel O'Connell, builder.
 South St., cor. Jamaica St., Ward 23, for J. J. Williams, dwell., 25' x 25' and 42' x 42', three-story mansard.
 Rockbury Ave., near Englewood Ave., Ward 25, for R. L. Woodbury, dwell., 21' 4" and 20' x 33', two-story pitch; Morton & Chesley, builders.
 Elm St., near Broad St., Ward 1, for John Casson, dwell., 24' x 27', two-story flat; M. R. McDonald, builder.
 Howard Ave., No. 6, rear, Ward 20, for Albert Feltner, dwell., 18' x 33', one-story pitch; J. Bass, builder.
 Milton Ave., near Prospect St., Ward 24, for Chas. A. Hall, dwell., 20' and 28' x 28', two-story pitch; J. and F. H. McDonald, builders.
 Wise St., near Royce St., Ward 23, for Alexander Freier, stable, 18' x 28', one-story pitch; Jos. Hammerle, builder.

Brooklyn.

BUILDING PERMITS.—Central Ave., w s 25' n Melrose St., three-story brick tenement, tin roof; cost, \$4,500; owner, John Bieggeman, Central Ave., cor. Melrose St.; architect, J. Platte; builder, F. J. Berlenbach.
 South Fifth St., No. 420, three-story brick tenement, tin roof; cost, \$5,500; owners, Voisibol & Ibrig, South Fourth St. near Ninth St.; architects and builders, C. L. Johnson's Sons.
 Sumner Ave., w s 20' s Hart St., three houses and one on rear of lot, s s Hart St., 30' s Sumner Ave., in all 4 two-story brown-stone dwellings; cost, each, \$5,500; owner, E. F. Clayton, 161 Fourteenth St.; architect, W. F. Clayton.
 Manhattan Ave., s e cor. Noble St., 4 four-story brick, stone and terra-cotta flats and stores, tin roofs; total cost, \$10,000; owner, Jas. Thompson, Far Rockaway, L. I.; builders, Van Ripper Bros. and Andrew Hulso.
 Eighth Ave., n o cor. Seventeenth St., 4 three-story brick tenements, gravel roofs; cost, each, \$5,000; owner, W. H. Couklin, 4754 First St.; architect, I. H. Horvath.
 President St., s s 230' s Third Ave., 8 three-story frame tenements, tin roofs; cost, each, \$4,500; owner and carpenter, Sampson B. Outton; architect, Wm. H. Verth; mason, Anthony McGrath.
 Third Ave., w s 100' s Third St., one-story brick and stone storage warehouse, tin roof; cost, \$3,500; owner, Brooklyn Improvement Co., Third Ave., cor. Third St.; architects, Parfitt Bros.; builders, E. P. Crane and D. B. Hall, realtors.
 Myrtle Ave., n s 75' s Charles Pl., three-story frame (brick filled) store and tenement, tin roof; cost, \$4,500; owner, Mr. Koops; architect, John Platte; builder, Ernst Leorch.
 Sixth Ave., s e, extending from Thirteenth to Fourteenth St., 10 two-story brown-stone dwellings, tin roofs; cost, each, \$4,500; and 2 three-story brown-stone stores, tin roofs; cost, each, \$4,500; owner, Stillman P. Lincoln, 174 Hall St.; architect and carpenter, Chas. Lincoln; masons, Buchanan & Riley.
 Fourteenth St., n s, 100' s Sixth Ave., also Thirteenth St., s s, 100' s Sixth Ave., 2 two-story brick dwellings, tin roofs; cost, each, \$4,500; owner, Stillman P. Lincoln, 174 Hall St.; architect and carpenter, Charles L. Lincoln; masons, Buchanan & Riley.
 Powers St., No. 71, n s, 175' s Lorimer St., three-story frame (brick filled) tenement, tin roof; cost, \$4,000; owner, S. M. Mund, 71 Powers St.; architect, J. A. Modin.

lots and carpenters, Sammis & Bedford; mason, Michael Kaupp.

Park Pl., n s, 250' s Brooklyn Ave., three-story brick dwell., slate roof; cost, \$15,000; owner, Edward H. Hobbs, Mansion House; architect, Geo. F. Chapell.

Ninth St., n s, 20' s Sixth Ave., 2 three-story brown-stone dwellings, tin roofs; cost, each, \$6,000; owner, John Fay, Ninth St., near Sixth Ave.; architect, Francis Ryan.

Borum St., s s, 125' s Leonard St., three-story brick school-house, tin roof; cost, \$57,000; owner, Board of Education; architect, J. W. Naughton; builders, John McQuaid and H. B. Ferguson.

Degrass St., s s, 100' s Smith St., three-story brick school-house, tin roof, wooden cornice; cost, \$34,000; owner, Board of Education; architect, J. W. Naughton; builders, Frank Kelly and John S. McRae.

Berkeley Pl., n s, 350' s Sixth Ave., three-story brick school-house, tin roof; cost, \$18,000; owner and architect, same as last; builders, John H. O'tourne and John S. McRae.

Nelson St., s s, 140' s Clinton St., 2 three-story brick tenements, tin roofs; cost, each, \$4,500; owner, Edward Keogh, Jr., 148 Laquer St.; builder, Thomas Keogh.

Washington Park, No. 171, s s, 120' n Willowhatch Ave., three-and-a-half-story brick dwell., tin and slate roof; cost, \$12,500; owner, Wm. N. Dykman, Thomas; builders, P. J. Carlin and J. S. McRae.

Greene Ave., s s, 160' s Throop Ave., 2 three-story brick and brown-stone dwellings, tin roofs; cost, each, \$6,500; owner, Paul O. Greening, 430 latea Ave.

Clifton Pl., n s, 375' s Grand Ave., two-story brick stable and gravel roof; cost, \$7,000; owner, R. H. Bennett, 70 Madison St.; architect and builder, J. N. Smith.

Clifton Pl., s s, 100' s Olason Ave., two-story brick dwell. and stable, tin roof; cost, \$5,000; owner, A. J. Pauch, 315 Greene Ave.; architects, Eastman & Garfield, P. J. Carlin and Long & Barnes.

Garfield Pl., s s, 300' s Fifth Ave., three-story brick tenement, tin roof; cost, about \$4,000; owner, Thos. Dowd, Macomb St.; architect and builder, Thos. J. Nash.

Douglas St., n s, 250' s Bond St., 2 three-story brick tenements, gravel and felt roofs; cost, each, \$4,500; owner, John M. O'Neil; architect and builder, John S. O'Neil.

Madison St., s s, 170' s Ralph Ave., 4 three-story frame (brick filled) flats, tin roofs; cost, each, \$3,500; owner, W. J. Caulfield, New York City; architect, I. D. Reynolds.

Gates Ave., s s, 225' s Olason Ave., three-story free-stone dwell. and stable, tin roof; cost, \$14,000; owner, Miguel Alvers; architect, Amzi Hill; builder, Benjamin Linkin.

Hart St., n s, 100' s Nostrand Ave., 8 buildings; also, Hart St., n s, 138' s Nancy Ave., 5 buildings; in all 10 two-and-a-half-story and basement brown-stone dwellings, tin roofs; cost, each, \$6,000; owner, F. B. Boerum; architect, I. D. Reynolds; builder, Thos. E. Greenland.

Myrtle Ave., Nos. 1154 and 1156, s s, 250' s Broadway, 2 three-story frame tenements; cost, each, \$4,500; owner, Walter Salomon Wolf; architect, Th. Engelhardt; builder, Jos. Wagner, Jr.

Herbert St., No. 54, s s, 150' s Humboldt St., three-story frame tenement, tin roof; cost, \$4,000; owner, Sarah M. E. Hall, 122 Mott St., New York; architect, A. Herbert; builder, Daniel O'Keeffe.

Flushing Ave., No. 237, n s, 25' s Morrell St., three-story frame store and tenement, tin roof; cost, \$4,500; owner and builder, Chas. Lehmann, 1000 St. New York; architect, Th. Engelhardt.

Rensselaer St., s w cor. Clinton St., five-story brick and stone club-house, tin roof; cost, about \$30,000; owner, Hamilton Club, Brooklyn; architect, Geo. B. Post; builder, D. H. King.

Broadway, s s, 60' s Kosciuszko St., 2 three-story brick tenements, tin roofs; total cost, \$9,000; owner, Mary J. Hutchchison, Grove St.; architect and carpenter, George A. Robinson; mason, J. Lambert.

Garfield Pl., s s, 50' s Seventh Ave., 2 three-story brown-stone dwellings, tin roofs; cost, each, \$9,000; owners, architects and builders, Martin & Lee, 410 Clermont Ave.

Manhattan Ave., w s 25' s Norman Ave., 3 three-story brick stores and dwellings, tin roofs; cost, each, \$5,000; owner, Adrian Masoreto, Lorimer St.; architect, F. Weber; builders, Smith & Gately and Randall.

ALTERATIONS.—Clinton St., Nos. 12 and 14, add one-story, also three-story brick extension, tin roof; also front stored; cost, \$6,000; owner, A. Hardenbergh, cor. Clinton and Fulton Sts.; architects, Eastman & Garfield; builder, not selected.

Dwars; builder, not selected.
 Greene Ave., s e cor. Clermont Ave., add to lower, also one-story terra-cotta and brick extension; cost, \$15,000; owner, Church of the Messiah, architect, R. H. Robertson; builders, Terence Kiernan and Jean & Taylor.

Albany St., s s, 100' n Myrtle Ave., four-story brick owner, Hamilton Club, Brooklyn; architect, J. W. Naughton; builder, F. B. Norris.

Myrtle Ave., s s, 75' s Broadway, three-story brick extension, slate roof, also rear wall added; cost, \$15,000; owner, Board of Education, Red Hook Lane; architect, J. W. Naughton; builder, John McQuaid.

Seventeenth St., n s, 100' s Seventh Ave., two-story brick extension, tin roof; cost, \$14,000; owner, Board of Education; architect, J. W. Naughton; builder, F. B. Norris.

McKibben St., n s, 150' s Ewan St., three-story brick extension, tin roof, also interior alterations, etc.; cost, \$19,000; owner, Board of Education; architect, J. W. Naughton; builder, P. J. O'Brien.

The Academy of Music is to be rededicated by Mr. W. H. Day of New York, under directions of Messrs. Kimball & Winslow, who have also designed some interior alterations to the Academy.

Chicago.

BUILDING PERMITS.—N. Ek, two-story addition, 146 Oak St.; cost, \$3,000; builder, J. A. Modin.

(Reported for The American Architect and Building News.)

BUILDING PATENTS.

1. *Journal of Management Studies*, 1996, 33, 1, 1-14.

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Baltimore.

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

J. Stein, two-story dwell., 583 Dixon St.; cost, \$2,500.
 J. Senger, two-story dwell., 583 Dixon St.; cost, \$2,500.
 J. Szumanski, two-story dwell., 685 Dixon St.; cost, \$2,500.
 J. Senger, two-story dwell., 687 Dixon St.; cost, \$2,500.
 (1. T. Stonoham, three-story store and flats, 388 Ogden Ave.; cost, \$1,300.
 N. B. Luppely, two-story warehouse, 111 Fourth Ave.; cost, \$4,000.
 M. McMahon, two-story store and dwell., 3157 Archer Ave.; cost, \$3,700; builder, O. S. Kelso.

Cincinnati.

STONE.—Morris White, Esq., is to build a four-story brick store on Court St., near Vine St.; Samuel Hunsford, architect.
 BUILDING PERMITS.—Jerry Dolaney, three-story frame dwell., cor. McMillan and Forest Aves.; cost, \$2,500.
 F. Otto, three-story brick dwell., Poplar St. and Western Ave.; cost, \$2,000.
 Church, cor. of Astler and Freeman Sts.; cost, \$21,000.
 Andrew Hoff, two-story brick dwell., cor. Mohawk and Vermont Sts.; cost, \$2,000.
 Church of the Advent, addition, Hemper Lane and Curtis Sts.; cost, \$7,000.
 C. E. Hill, three-story brick dwell., cor. Fifth and John Sts.; cost, \$10,000.
 Mrs. Wampack, two-story brick dwell., cor. Barton and Wale Sts.; cost, \$4,000.
 Louis Denning, three-story brick, 180 Bank St.; cost, \$3,000.
 M. Warth, three-and-one-half-story brick dwell., cor. Rittenhaus and Court Sts.; cost, \$5,000.
 John Schooth, two-story brick dwell., cor. James St. and Fifth Ave.; cost, \$4,000.
 H. W. Hopp, two-story brick dwell., cor. Bogen and Harrison Ave.; cost, \$2,400.
 Mrs. Van Lenden, two-and-one-half-story brick dwell., 151 Bank St.; cost, \$2,000.
 David Hummel, two-and-one-half-story brick dwell., cor. Straight and Addison Sts.; cost, \$7,000.
 Aron Nathan, four-story brick dwell., 333 West Sixth St.; cost, \$4,000.
 J. S. Wadwell, two-story frame dwell., Columbia St.; cost, \$2,000.
 John Holscher, three-story brick dwell., cor. Warner and Ravine Sts.; cost, \$2,500.
 Henry Housing, two-story brick dwell., cor. Findley St. and Western Ave.; cost, \$3,000.
 J. B. Campbell, three-story brick dwell., 108 Western Ave.; cost, \$3,000.
 Christ Westfall, three-story brick dwell., 88 Gilbert Ave.; cost, \$1,000.
 John Ware, two-and-one-half-story brick dwell., cor. Parcel and Warsaw Pike; cost, \$4,000.
 Paul Gratz, three-story brick dwell., 94 Buckeye St.; cost, \$1,500.
 J. R. Powell, two-story frame dwell., cor. Front and Collier Sts.; cost, \$4,000.
 Henry Brasser, three-story brick dwell., cor. Woodward and Hunt Sts.; cost, \$4,000.
 Mrs. Schwartz, two-and-one-half-story brick dwell., Wheeler St., near Calhoun St.; cost, \$3,500.
 Geo. Optiz, two-story brick dwell., cor. Clifton and Cliff Aves.; cost, \$4,000.
 Geo. Heizer, three-story brick dwell., cor. McMillan and Dunlap Sts.; cost, \$4,000.
 Schmitt Bros., one-story brick dwell., 44 McMillan St.; cost, \$3,000.
 Geo. Burk, three-story brick dwell., cor. Coleman and Bank Sts.; cost, \$3,000.
 A. C. Williams, two-story brick dwell., cor. Book and Locust Sts.; cost, \$2,500.
 Cost, \$138,700.
 Repairs, \$10,000.
 Total, \$148,700.
 Total number permits to date, 872.
 Total cost to date, \$2,273,555.

Milwaukee, Wis.

BUILDING PERMITS.—Chris. Tempila, store for Frank Tempila, on National Ave., Eighth Ward; cost, \$2,800.
 F. Piepenhagen, frame dwell., for C. Penning, on Farwell Ave., First Ward; cost, \$3,400.
 C. Schucknech, frame dwell., for M. Sweet, Farwell Ave., First Ward; cost, \$5,000.
 C. Tempilman, church, cor. Brown and Fond du Lac Aves., Ninth Ward; cost, \$5,000.

Minneapolis, Minn.

BUILDING PERMITS.—Baker, Potter & Co., five-story brick warehouse, First St., between Fifth and Sixth Aves., North; cost, \$15,000.
 Baker, Potter & Co., grain elevator, First St., between Fifth and Sixth Aves., North; cost, \$75,000.
 Miss A. Wetherbee, two-story double dwell., n s Fourteenth St., between Third and Fourth Aves., South; cost, \$6,000.
 J. H. James, two-story frame dwell., Nicolet Ave., between Thirty-first and Thirty-second Sts.; cost, \$3,000.
 John Graber, two-story brick veneered store and dwell., cor. Tenth Ave. and Sixth St.; cost, \$3,000.
 Roberts & Lenhart, brick carriage-shop, n s of Main St., between Central Ave. and First Ave., North; cost, \$4,000.
 Holy Rosary School Society, three-story brick school-house, Sixth St., between Cedar and Nineteenth Aves., South; cost, \$25,000.
 J. D. Hutchins, two-story wooden dwell. and barn, e Third Ave., South, between Twenty-first and Twenty-second Sts.; cost, \$6,100.
 P. L. Laurens, two-story wooden dwell., First Ave., South, between Thirty-second and Thirty-third Sts.; cost, \$3,000.
 E. P. Sweet, two-story wooden dwell., n w s Hillside Pl.; cost, \$3,000.
 (Ten L. A. Grant, two-story frame dwell., 43' x 56', Prospect St.; cost, \$10,000.

New York.

BUSINESS is duller than it has been for many years, even at this season of the year, when work increases early drags.

ANALYST.—An addition, 62' 6" x 80', is to be made to the St. Vincent de Paul Orphan Asylum, on Thir-

ty-ninth St. and Seventh Ave. It will be four stories high, with basement of Philadelphia brick with stone details. Mr. W. H. Hume is the architect.

BUILDING PERMITS.—One Hundred and Forty-fourth St., s s, 300' x Eighth Ave., one-and-a-half-story frame stable, halingo roof; cost, \$2,500; owner, Michael H. Cashman, 305 Fifth Ave.; architect, A. Shence.
 One Hundred and Forty-third St., s s, 110' x Willis Ave., three-story frame dwell., tin roof; cost, each, \$3,000; owners, Thomas Phillips, One Hundred and Forty-first St., near Brook Ave., Edward Harvey, 123 East Fifty-third St., Chas. Miller, 209 East Fifty-fourth St., and Robert Letolles, 310 East Seventy-third St.; architect, C. Miller; carpenter, M. Munch.
 Washington Ave., No. 1212, s s, 110' x One Hundred and Sixty-eighth St., three-story frame dwell., slate and tin roof; cost, \$1,000; owner, Samuel E. Tyler, One Hundred and Forty-third St., near Third Ave.; architect, H. S. Baker; carpenter, R. F. Frable.
 One Hundred and Forty-third St., s s, 100' x Sixth Ave., four-story brick and Belleville stone dwell., slate and tin roof; cost, \$7,500; owner, Jos. Thompson, 60 West Fifty-second St.; architect, J. E. Terhune.

Second St., No. 216, five-story brick tenement, tin roof; cost, \$9,000; owner, Michael Fay, 417 East Twenty-third St.; architect, A. B. Ogden & Son.
 One Hundred and Fifty-third St., s s, 200' x Morris Ave., three-story frame tenement, tin roof; cost, \$1,800; owner, Christopher Eder, 532 East One Hundred and Fifty-third St.; architect, E. Stiebler.
 Hudson St., n w cor., Harrison St., five-story brick and stone building, copper and slate roof; cost, \$176,000; owner, The New York Mercantile Exchange, Wm. H. Duckworth, chairman building committee, 222 West Nineteenth St.; architect, Thomas R. Jackson; builder, S. Lowden.

West Seventy-third St., No. 478, four-story brick and stone dwell., tin and slate roof; cost, \$30,000; owner, Henry W. Struss, 335 West Fifteenth St.; architect, W. Wheeler Smith.
 East One Hundred and Twenty-sixth St., No. 227, five-story brick tenement, tin roof; cost, \$12,000; owner, E. K. Wright, 108 Broadway; architect, Cleveland & Putzel.

Second Ave., w s, 75' x Sixty-fourth St., two-story brick workshop and stable, gravel roof; cost, \$3,000; lease and builder, John J. Brerly, 113 East Forty-eighth St.; architect, John J. Friend.
 One Hundred and Sixty-seventh St., n s, 200' x Tenth Ave., three-story frame dwell., tin roof; cost, each, \$1,000; owner, Martin Bauer, 65 Pitt St., builder, H. R. Fordling and Geo. Seaton.
 One Hundred and Twenty-second St., n s, 72' x Eighth Ave., three-story brown-stone front dwell., tin roof; cost, each, \$9,000; owner, Lorenz Welher, New Rochelle; architect, J. P. Burrows.

One Hundred and Fourth St., s s, 100' x Tenth Ave., five-story brown-stone front flats, tin roof; cost, total, \$37,000; owner, Wm. Curry, 329 West Fourteenth St.; architect, M. Louis Unglich.
 Twenty-sixth St., s s, 75' x First Ave., five-story brick laboratory, tin roof; cost, \$50,000; owner, Frederick S. Dennis, M. D., 21 East Twenty-first St.; builder, Jos. Richardson.

First Ave., s s, cor. Thirty-second St., six five-story brick tenements and stores, tin roof; cost, each, \$14,000; owner, Leopold Kaufmann, 123 East Sixty-sixth St.; architect, Schwarzmann & Buchmann.
 First Ave., s s, cor. Thirty-third St., six-story brick factory, tin roof; cost, \$70,000; owner and architects same as last.

Thirty-third St., s s, 125' x First Ave., five-story brick tenement, tin roof; cost, \$18,000; owner and architects, same as last.
 Second Ave., w s, 22' 10" x One Hundred and Fifth St., five-story brown-stone front tenement and store, tin roof; cost, \$10,000; owner, Mrs. Theresa Schappert, 603 East Eighty-eighth St.; architect, John C. Burne; builder, John A. Schappert.

Second Ave., w s, 100' x Third Ave., five-story brick and stone flats, tin roof; cost, each, \$20,000; owner, Michael Giblin, 125 East Ninety-second St.; architect, Babcock & McAtoy.

Philadelphia.

BUILDING PERMITS.—Norris St., s of Fifteenth St., three-story dwell., 16' x 66'; A. Miller, contractor.
 Norris St., s of Fifteenth St., store and dwell., 35' x 45'; A. Miller, contractor.
 Jefferson St., w of Ridge Ave., two-story dwell., 17' x 45'; A. P. Righter, owner.

Sherre St., No. 606, two-story dwell., 18' x 30'; Jno. G. Long, owner.
 East Thompson St., No. 633, three-story dwell., 17' x 52'; J. S. Haldt & Son, contractors.
 Seventh St., cor. Marriott St., two-story warehouse, 22' x 57'; Theo. McManney.

North Forty-third St., No. 61, three-story dwell., 18' x 60'; T. O. Sloan, owner.

Bowman St., e of Third Fifth St., four two-story dwell., 14' x 32'; Wm. Kinton, owner.

Germania Ave., No. 4765, three-story dwell., 13' x 30'; A. Reiber, owner.

Fifth St., n of Butler St., two two-story dwell., 18' x 44'; Anthony Weiss, owner.

Sansom St., No. 834, stationary engine-house, C. R. K., 100' x 107'; Philadelphia Traction Co., owner.

Thirty-fourth St., cor. Huntingdon St., two-story dwell., 16' x 47'; Chas. Bartle, contractor.
 New St., between Thirty-fourth and Thirty-fifth Sts., two-story dwell., 16' x 52'; Chas. Bartle, contractor.

Cedar St., n of Terrace St., two two-story dwell., 16' x 32'; Jas. Harper, contractor.
 Jefferson St., s of Hamilton St., two-story dwell., 18' x 40'; Harry Rowland, owner.

Manayunk Ave., s of Penn St., two-story dwell., 18' x 40'; Wm. Eddleman, contractor.
 Columbia Ave., No. 1304, three-story drying room, 20' x 40'; E. K. Kooning.

Williams St., Nos. 510-518, five two-story dwell., 14' x 40'; Christian Dear, contractor.

Edmund St., e of Margareta St., two-story dwell., 16' x 37'; Thomas Walters, contractor.
 High St., bet. Morton and Chew Sts., three-story dwell., 18' x 50'; B. H. McNabb, contractor.
 Fifth St., n of York St., three-story dwell., 16' x 40'; F. Striebig, contractor.
 Howard St., No. 1516, three-story dwell., 18' x 50'; E. P. Stewart, contractor.
 Ridge Ave., No. 3701, two-story store and dwell., 16' x 50'; J. N. Eshur, contractor.
 Wagoning St., w of New Second St., two-story stable, 18' x 40'; Jno. Davis, Jr.

St. Louis.

BUILDING PERMITS.—Eighty-eight permits have been issued since our last report, seventeen of which are for unimportant frame houses. Those worth \$2,500 and over are as follows:—

2,500; E. P. Dickson, contractor.
 Domino Signage, two-story brick dwell.; cost, \$7,000; P. F. Magher & Son, architects; sub lot.
 Hugh L. White, two-story brick dwell.; cost, \$10,000; H. White, architect.

Jno. Ritter, two-story dwell.; cost, \$1,000; Wm. O. Shaper, architect; H. Heilmann, contractor.

J. W. Mueller, two-story dwell.; cost, \$1,000; Wm. Galt, contractor.

Jos. Baumgarten, two-story dwell.; cost, \$1,000; Wm. Stahl, contractor.

Madison Obrecht, 3 adjacent two-story tenements; cost, \$5,000; A. Diets, contractor.

Nicholson Bros., two-story dwell.; cost, \$3,200; Hunt, architect; H. Heilmann, contractor.

Protestant Church Co., two-story dwell.; cost, \$3,000; J. Smiley, contractor.

Wm. Maschmitt, two-story dwell.; cost, \$1,000; L. Jueger, contractor.

St. Paul, Minn.

BUILDING PERMITS.—John Jessrang, two-story brick veneered store and dwell., w s of Rice St., between Ingelhart and Tilton Sts.; cost, \$3,000.

Mourne Shiere, one-and-one-half-story frame double dwell., on the s s of Henry St., between Lee and Tuscumbia Sts.; cost, \$2,500.

Albert Spangenberg, two-story brick veneered dwell., s s of Fort St., between Ninth and Rice Sts.; cost, \$3,000.

Charles Horst, three-story brick store and dwell., s s of Tenth St., between St. Peter and Fort Sts.; cost, \$10,000.

St. Paul Union Depot Company, two-story brick warehouse, facing side of depot grounds, between Rosenthal and Wacouta Sts.; cost, \$20,000.

I. N. Snow, two-story brick block of three dwell., s s of Pleasant Ave., between Third and Sixth Sts.; cost, \$8,000.

D. K. Noyes, two-story stone residence, w s of Summit Ave., between Virginia and Western Aves.; cost, \$20,000.

Union Depot Company, rebuilding union depot, s s of Sibby St., between Third St. and Railway; cost, \$75,000.

Frederick Driscoll, two-story brick dwell., s s of Summit Ave., between Walnut and Western Aves.; cost, \$10,000.

Board of Education, two-story brick addition to the Adams school-house, w s of Union Ave., between Colorado and Wood Ave.; cost, \$14,125.

Board of Education, two-story brick school-house, s s of Agate St., between Cayuga and Granite Sts.; cost, \$21,350.

John Schaller, two-story brick and brick-veneered double store and dwell., s s of Park Ave., between Viola and Sherburne Sts.; cost, \$3,600.

Bids and Contracts.

PENNSACOLA, FLA.—The following is an abstract of the bids received for stone-work of basement and superstructure of the custom-house and post-office:—

Gill & Beard, brownstone, total \$107,633; estimate for stone-work in dormers and tower, \$20,000. Bidding green, total, \$57,414; for dormers and tower, \$18,155. Bedford, total, \$93,275; dormers and tower, \$11,253.

A. V. Clubbs, Buena Vista free-stone, total, \$12,000; for dormers and tower, \$13,000.

Hickman & Dunsmuir, Stone Co., Bowling Green stone, total, \$68,333 (accepted); dormers and tower, \$12,400.

M. A. McGowan, Bowling Green or Buena Vista free-stone, total, \$80,000; dormers and tower, \$16,000. Brownstone, total, \$104,000; tower and dormers, \$19,710.

John R. Smith, Connecticut brown-stone, total, \$83,500; dormers and tower, \$18,000.

The following is a synopsis of the bids received for furnishing bricks, cement, sand, and terra-cotta flag-stone for the same building:—

Fish & Williams, bricks, \$12.50; cement, \$2.10 per barrel.

B. R. Pitt, bricks, \$13.
 Casper Slank, sand, per cubic yard, 95 c.
 R. L. Turner, bricks, \$10.25.

A. V. Clubbs, bricks, \$12.40; cement, \$1.90; sand, 80 c.; terra-cotta, per hundred foot, 75 c.
 J. M. Wheatley, sand, per barrel, \$1.53.

KANSAS CITY, Mo.—The following is a synopsis of bids for plastering for the custom-house and post-office:—

Smith & Crimp, \$4.375 (accepted).
 Joseph Pastan, \$5.75.
 David W. Lloyd, \$7.50.
 Sheppard & Buge, \$4.800.
 J. S. Lewis, \$5.000.
 William Harris, \$2.875.
 Charles H. Field, \$15.500.

WASHINGTON, D. C.—In pursuance to advertisement, the following bids have been received for the nine sections of terrace at the Capitol:—

Hallowell Granite Co., \$41,700.
 Douglas Bros., \$37,354.78.
 Richard Rothwell, \$34,323.
 Acker & Co., \$32,800.
 Edwards & Son, \$32,000.
 Robert McLeod, \$31,001.23.
 M. C. Flannery, \$30,000.
 Laue & Mahan, \$28,275 (accepted).

THE AMERICAN ARCHITECT AND BUILDING NEWS.

VOL. XVI.

Copyright, 1884, JAMES R. OSGOOD & Co., Boston, Mass.

No. 453.

AUGUST 30, 1884.

Entered at the Post-Office at Boston as second-class matter.

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THE *Inland Architect and Builder* announces a call for a convention of Western architects, to meet at Chicago on the second Wednesday in November next. The invitation is addressed to all members of the profession in the country, but is more particularly intended for those of the South and West, who find it difficult to avail themselves of the advantages of the meetings of the American Institute of Architects, and yet need, and know that they need, the help of association with others of the profession. Within a few years, under the federal constitution of the Institute, a considerable number of local societies and chapters have been formed west of the Alleghenies, but it is a long distance from Indianapolis or St. Paul to Albany or Newport, and the benefits resulting from the mutual acquaintance and support of a large body of the profession must almost necessarily be sought in such conventions as that which is now proposed. We trust that the response to the invitation will be general, and are sure that the Western convention will have the best wishes of all architects in the East, and, unless the invitation should be made less general, some of them are not unlikely to make an effort to express in person their fraternal sentiments.

WE believe we have not often been tempted to enter into a discussion or controversy with another journal, but we feel that circumstances justified us in "naming," as it were, the *Sanitary Engineer* for its treatment of Mr. Putnam. And as the matter of trap-ventilation is one of great importance to the public we feel there is reason for continuing the discussion. There is an unwritten law that the parties to a journalistic controversy shall confine their replies to their respective journals, but as the one-sidedness of this kind of discussion is, to say the least, obviously unfair to the readers of such journals, we reproduce in another column the reply the *Sanitary Engineer* makes to the remarks which appeared in our issue for August 16.

WE do not like to be regarded as traducers of any of our fellow-citizens, and least of all do we wish the plumbers, for many of whom we have a sincere personal regard, to think that we have any desire to oppose their interests or to criticise any of their acts merely for the sake of criticism. We therefore venture, at the risk of being tedious to our readers, to return once more to the subject of what plumbers call "trade protection," that is, an agreement by which the dealers in plumbing materials sell their goods to plumbers, who are their principal customers, at a lower rate than to the general public, in regard to which we have written some things which seem to have been sadly misunderstood. Every one who has taken the trouble to read what we have said about this matter knows that we find nothing whatever objectionable in such an agreement, which is simply that which generally exists between wholesale dealers and those who buy of them frequently and pay their bills promptly, and it is with amazement that we find ourselves held up to scorn in the columns of the *Hydraulic and Sanitary*

Plumber as being "affrighted" at the prospect that plumbers will secure a "reasonable advance" as profit on the goods they sell, or accused, as in a letter written to the same excellent journal, of "presumptuous ignorance" of furnishing "threadbare and garbled statements" to our readers, and of being connected with a "ribald" and "degraded" press.

IF the writer of this letter, who is evidently sincere in his indignation, would refresh his memory by referring to the columns of the *American Architect*, he would see at once that we have never thought of denying to the plumber, any more than to other retailers, a fair profit on the merchandise which he handles, and that all our criticisms,—warnings, if he wishes to call them so, have been directed against what we think to be the useless and foolish endeavors of certain plumbers and certain dealers to conceal the trade discounts from the public, which knowing that they are in some cases very large, naturally, though unjustly, believes that they are equally exorbitant in all, and that plumbers by means of them make enormous profits in their business, in ways which honest men avoid. Of course plumbers, and architects who are admitted to share the trade secrets, know that this impression is an erroneous one, and the latter, as we believe, conscientiously endeavor to remove from the minds of their clients the prejudice which they always find there against a body of men whose worth they know and appreciate; but both plumbers and architects also know that under cover of concealment for which the trade is now clamoring so strenuously, bills for plumbing goods are often presented to unsuspecting employers and paid, in which an advance of one, or two or even three hundred per cent on the cost of the goods is charged. Now, under the relations which exist between a plumber working by the day and his employer, the charging of such profits as these is simply swindling. There is no way in which anything else can be made out of it, and we repeat, with undiminished confidence, our opinion, the only one which we have ever expressed in relation to the subject, that the maintenance of a system which, like the present one of large secret discounts, makes such dishonesty easily practicable, benefits no one except the cheats in the trade, and injures the reputation and the business of all those plumbers—the great majority, as we are happy to believe, who think it right to deal fairly and openly with their customers, and wish for similar treatment in return.

THE writer of the letter in the *Hydraulic and Sanitary Plumber*, like an honest man, as we are sure he is, says that "as a matter of fact the trade price-lists which the manufacturers furnish are looked upon as being as much of a nuisance to the plumber as they possibly can be, and are tolerated only because the manufacturers prefer to keep them in existence for their own convenience, and not for the plumbers;" and again a few lines below, "The price-lists in question, while having a value of their own to plumbers in estimating on new work or determining the first cost of an article, are by no means the standard adopted for making charges to customers, and that fact is very well known, too, to the great majority." "The *Architect's* experience," he goes on to say, "may have led him to a different conclusion, and if that is the case, we can only say that even in the plumbing business dishonesty may be found as in others, but that it is the rule I cannot admit." Nor do we, as we take pleasure in saying, and we assure him that, entertaining the same high opinion as himself of the character of plumbers in general, we marvel all the more at their apparent persistence in endeavoring to establish a system in which observers outside the trade can see no advantage whatever to plumbers like himself, while it offers many and obvious opportunities for fraud to the unscrupulous ones. We have before us a copy of the agreement (printed elsewhere in this issue) presented for signatures to the manufacturers and dealers in plumbing materials by the Executive Committee of the National Association of Master-Plumbers, and would like to have our critic compare one or two articles in it with what he tells us is the practice of honest plumbers in regard to trade price-lists and discounts. The first article of the agreement proposes that dealers and manufacturers shall sell goods to no one except plumbers licensed by the President and Secretary of their respective Associations, the license to be in the form of a certificate, to be renewed every three months. The fourth article proposes

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

303,610. KNOB ATTACHMENT. — James Reuben Bink, South Windham, Conn.
303,611. PIPE JOINT PACKING. — Cotten T. Biddle, Washington, D. C.
303,612. CHIMNEY-CAP. — Robert H. Craighill, Buffalo, N. Y.
303,613. FRICTION-HINGE. — Wm. E. Gard, Meriden, Conn.
303,614. SAFETY-BOLT. — Perkins A. Gordon, Milan, Conn.
303,615. FIRE-ESCAPE. — Arthur H. Hall, Chicago, Ill.
303,616. SINK-TRAP. — Benjamin Holland, Jr., Providence, R. I.
303,617. VINE ATTACHMENT. — Theodora E. King, Westport, Conn.
303,618. WINDOW-BRACK FASTENER. — David Caruthers McGregor, East Oakland, Cal.
303,619. COMBINATION-TOOL. — Fred W. Ritchie, Vancough, Me.
303,620. STEAM-HEATING APPARATUS. — Charles W. Rugg, Cambridge, Mass.
303,621. AWNING. — Nelson S. White, Canton, and James E. Stevens, Stoughton, Mass.
303,622. DISINFECTING APPARATUS FOR WATER-CLOSETS. — Edward Mason Chase, Boston, Mass.
303,623. BRICK-MACHINE. — Samuel P. Crafts, Hamden, Conn.
303,624. VALVE FOR WATER-CLOSETS. — John Deane, New York, N. Y.
303,625. SASH-HOLD FASTENER. — Frederick S. Heller, Brooklyn, N. Y.
303,626. SASH-HOLDER. — John N. McGriff, Anderson, Ind.
303,627. MONKEY-WRENCH. — Gustavus B. Sanborn, Bristol, N. H.
303,628. SAFETY DEVICE FOR HOT-WATER BOILERS. — Wm. A. Tracy, Philadelphia, Pa.
303,629. HOBBLER-ALARM. — Emil Dambach, New York, N. Y.
303,630. SAFETY FLUID-TRAP. — Rudolph D'Hauwrou, New York, N. Y.
303,631. PORTABLE LAMP FOR USE IN BUILDING STRUCTURES. — Henry Find, St. Louis, Mo.
303,632. WATER-CLOSET VALVE. — Wm. J. Heath, New York, N. Y.
303,633. COMBINATION FIRE-PROOF ARCH. — Henry G. Isaacs, St. Louis, Mo.
303,634. BASIN-TRAP CLEANER. — James E. Kelley, Brooklyn, N. Y.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS. — Since our last report twenty-two permits have been granted, the more important of which are the following: —
E. S. Dillon, two-and-one-half-story brick building, s a Baltimore St., e of Payson St.
Aug. Hauman, 9 two-story brick buildings, s a Ann St., bet. Chas. and Middle Sts.
Jacob Garwig, 13 three-story brick buildings, w a McCulloh St., bet. Field St. and North Ave.
Emily J. Croner, 6 two-story brick buildings, n a Preston Pl., con. n e cor. Valley St., and two-story brick building s a Valley St., n of Preston St.
George Gugel, 2 three-story brick buildings, n e cor. Fulton and Patterson Aves.
Geo. Worick, 2 two-story brick buildings, s a Ensor St., s of Hoffman St.
J. H. Sudrunk, three-story brick building w a Behar Ave., n of Oliver St.
Horton Pear, 2 two-story brick buildings, w a Bruce Alley, s of Preston St.
Clement Smith, three-story brick building (square), s a Preston St., bet. Euter St. and Linden Ave.

Boston.

BUILDING PERMITS. — Drick. — Thatcher St., rear No. 3, Ward 7, for Rutland Marble Co., stable, 20' x 22' x 24' and 20' x 22' x 24' flat; John Keely, builder.
Ward. — Spence St., rear Ashland St., Ward 23, for Robert Wright, dwell., 12' x 12' and 24' x 24' flat; two-story pitch; Chandler, Gilman & Jones, builders.
Water St., No. 7, Ward 5, for Moses Pond & Co., storage, 12' x 40', one-story pitch; A. K. Nickerson, builder.
Washington St., opp. Allison St., Ward 23, for Samuel S. Leonard, milk room, 12' x 27', one-story pitch; Stephen Holmes, builder.
Union Ave., rear Green St., Ward 24, for Patrick McDonald, 2 dwell., 8' x 30' and 12' x 12', two-story pitch; Geo. A. Cahill, builder.
Tremont St., No. 1091, Ward 22, for Daniel J. O'Keefe, dwell., 22' x 27' and 37' x 37' flat.
Taylor Ct., off River St., opp. Temple St., Ward 24, for John Taylor, stable, 24' x 65', one-story pitch; John Taylor, builder.
Seventh Ave., rear Commercial St., Ward 24, for Silas Farnum, dwell., 30' x 25', one-story pitch; H. P. Oakman, builder.
Bennett St., rear, near Parsons St., Ward 23, for Pierce Quirk, stable, 20' x 25', one-story pitch.

Enfield St., rear, near Harel St., Ward 23, for Warren J. Stokes, stable, 20' x 24', two-story pitch; Warren J. Stokes, builder.
Baker Pl., rear, off Baker St., Ward 23, for Wm. Cronin, stable, 16' x 20', one-story pitch; Dennis Cronin, builder.
Albion St., rear, near Saratoga St., Ward 1, for Geo. C. Doyle, dwell., 24' x 30', two-story flat; G. V. Goodwin, builder.

Unassd. St., off Florence St., opp. Hancock St., Ward 23, for John Richardson, coal shed, 30' x 100', one-story pitch.
Salem St., rear, near Bosto Pl., Ward 23, for Samuel W. Bridge, dwell., 12' x 14' and 24' x 30', two-story pitch; Popular St., cor. Charles St., Ward 23, for Chas. J. Page, dwell., 24' x 31', two-story pitch; John Alden, builder.
Baker Ct., rear, near Dorchester Ave., for Henry L. Pierce, stable, 30' x 60', two-story pitch; Jas. Pope, builder.

Seaver St., rear, near Walnut St., Ward 21, for F. W. Dahl, stable, 30' x 40', two-story masonry; Valentine Bock, builder.
Alfred Ave., rear, near Day St., Ward 22, for Sarah H. Seaverns, dwell., 14' x 18' and 20' x 23', two-story hip; A. Cassidy, builder.

Brooklyn.

BUILDING PERMITS. — Eighth St., s a, 901' 10" w Sixth Ave., one-story brick church, slate roof; cost, \$10,000; owner, Hanson Pl. M. E. Church, cor. Hanson Pl. and St. Felix St.; architect, John Mumford; builders, J. Ashfeld & Son and Morris & Selover.

Berkley Pl., No. 229, three-story and basement brick dwell., tin roof, iron cornice; cost, \$10,000; owner, Mrs. O. S. Brakely, 461 West Twenty-first St., New York; architect, John Saxon; builder, James K. Spitt.

Broadway, No. 1029, n e cor. Lafayette Ave., three-story store and tenement, tin roof; cost, \$9,165; owner, Peter D. Koney, 192 Duane St.; architect, Th. Engelhardt; builders, Geo. F. Cutler and K. B. Ferguson.

Nineteenth St., s a, 415' w Third Ave., two-story frame straw hat factory, tin roof; cost, \$2,800; owner, Elizabeth Parsons, Thirteenth St., cor. Second Ave.; architect and builders, Spence Bros.

Broadway, No. 781, s a, 25' w Wall St., three-story store and dwell., tin roof; cost, \$7,000; owner, J. M. Otto, 453 Grand St.; architect, Th. Engelhardt.

Broadway, No. 779, s e cor. Wall St., three-story brick store, office and dwell., tin roof; cost, \$9,000; owner, etc., Th. Engelhardt, 10 Fayette St.

Manhattan Ave., s a, 160' s Calyer St., four-story brick store and tenement; cost, \$4,000; owner, Isaac Abrams, on premises; architect, Frederick Weber; builder, M. Smith.

Nassau Ave., s a, between Leonard and Eckford Sts., 12 three-story brick tenements, tin roofs; cost for all, \$45,000; owner, John Engle, Sr.; architect, Fr. Weber; builders, John B. Woodruff and S. F. Bartlett.

Holmes St., s a, 144' w Bedford Ave., 2 three-story brown-stone dwellings, tin roofs, wooden cornices; cost, each, \$6,000; owner and builder, James Haugher.

Franklin Ave., s w cor. Bergen St., four-story brick store and tenement, tin roof; cost, \$12,000; owner, Christian Schluness, 669 Pacific St.; architect, A. Horbert; builder, Jacob Schoch.

Myrtle Ave., n e cor. Lewis Ave., two-story brick stable and hay-loft, felt and gravel roof; cost, \$10,000; owner, Brooklyn City R. R. Co., 10 Fulton St.; architect, A. W. Dickie.

Nassau St., s a, 300' n Van Cott Ave., three-story frame (brick filled) tenement, gravel roof; cost, \$4,300; owner, F. Thos. Aspern, New York; architect, Fr. Weber; builders, Fort & Walker.

Madison St., s a, 200' s Lewis Ave., 3 two-and-one-half-story brown-stone dwellings, tin roofs; cost, \$4,000 each; owner, G. Dultvere, 663 Greene Ave.; architect, Ansel Hill.

Private St., between Baltic and Butler Sts., 115' w Third Ave., 21 two-story brick dwellings, gravel and felt roof; cost, each, \$2,500; owner, James W. Dearing, 444 Henry St.; architects, Parfit Bros.

Myrtle St., s a, 100' s Fourth Ave., 2 two-story brick dwellings, tin roofs; cost, each, \$3,000; owner and builder, C. B. Sheldon.

Chicago.

BUILDING PERMITS. — St. Aloysius Church and School, 485-601 Davis St.; cost, \$12,000; architect, D. Bess.

Mrs. M. O'Brien, two-story store and flats, 240 North Market St.; cost, \$1,000.

D. Guirick, two-story flats, 497 Superior St.; cost, \$2,200; builder, A. Kohlhaas.

Archibishop Feehan, barn, 618 North State St.; cost, \$20,000; architects, Willett & Bashley; builders, Robinson & Miner.

M. Mooney, two-story store and flats, 2358 Cottage Grove Ave.; cost, \$6,000.

C. Niles, cottage, 187 Bissel St.; cost, \$2,700.

W. A. Passanant, three-story hospital, 189-192 Superior St.; cost, \$25,000; architect, Charles Birkaur, builders, Schleimetz & Ellenberger.

D. Levy, two-story flats, 17 Cornelia St.; cost, \$4,700.

J. Jancek, three-story flats, 700 Alport Ave.; cost, \$4,400.

J. Willmoky, three-story store and flats, 593 Blue Island Ave.; cost, \$8,000; architect, F. W. Reial; builder, A. Kula.

O. W. Boynton, three-story dwell., 388-390 Ontario St.; cost, \$10,000.

Thos. Murphy, cottage, 464 Dayton St.; cost, \$2,600.

J. Raby, two-story dwell., 492 Superior St.; cost, \$4,000; architect, E. Sachs.

F. Metzger, two-story store and dwell., cor. Thirty-first and Wall Sts.; cost, \$1,500.

T. B. Blair, 3 cottages, 3616-3620 LaSalle Ave.; cost, \$4,800.

O. Moller, two-story dwell., 314 Twenty-second St.; cost, \$1,600; architect, T. Frank; builder, O. Spoor.

W. H. Knox, three-story flats, 873 Van Buren St.; cost, \$6,000.

Turner & Bond, 4 cottages, Idaho St.; cost, \$8,400.

H. H. Porter, two-story addition, 311 Erie St.; cost, \$2,500; builder, L. Durech.

E. B. Clarke, 5 two-story dwellings, 59-65 Robey St.; cost, \$8,000; architect, R. Ray; builders, Geo. Lehman & Son.

J. P. Bull, two-story dwell. and store, 621 North Clark St.; cost, \$3,500.

R. & D. Gibson, two-story dwell., Washtenaw Ave.; cost, \$3,000.

Cincinnati.

BUILDING PERMITS. — W. Fair, three-story brick building, Fair St., between Mound and Cutor Sts.; cost, \$5,000.

J. Bergfeld, three-story brick building, w a of Sycamore St., between Woodward and Franklin Sts.; cost, \$3,000.

Ph. Paul, two-story brick building, Fort Ave., between James and Rachel Sts.; cost, \$5,000.

J. H. Wolf, three-story brick building, s a Kendall Ave., between Hank and Central Aves.; cost, \$1,000.

A. N. Roberts, addition, 2nd Vine St.; cost, \$3,200.

M. A. Nathan, three-story brick building, 330 West Sixth St.; cost, \$5,000.

Louis Shuts, three-story brick building, s a State Ave., between Stone and Stable Sts.; cost, \$4,000.

Wm. Strekamp, three-story brick building, s a State Ave., between Clerman and River Road; cost, \$3,000.

Total cost, \$30,000.

New York.

STONE. — For Mr. M. H. Rosenstein, a six-story and basement store, 25' x 130', iron front, is to be built at No. 102 Bleeker St., at a cost of about \$65,000, from designs of Mr. Alfred Tucker.

FLATS. — On the s e cor. of First Ave. and Eighty-third St., 5 five-story brick, brown-stone and terra-cotta flats, three 25' x 70', one 27' x 55', and the other 26' x 55', are to be built at a cost of about \$8,000, by Mr. P. Braender, from plans of Mr. John Brandt.

At No. 385 First Ave., a five-story brick and stone flat, with store, 25' x 80', is to be built by Mr. W. B. Boyd, at a cost of \$18,000, from designs of Mr. J. Hoffmann.

On the s e of One Hundred and Thirty-third St., 80' of Madison Ave., 2 five-story brick, brown-stone and terra-cotta flats, 27' 6" x 70' each, are to be built at a cost of \$35,000, for Mr. Frank M. Clemens, from designs of Mr. J. Brandt.

BUILDING PERMITS. — Bergen Ave., w a, 49' s One Hundred and Fifty-third St., three-story frame tenement, tin roof; cost, \$3,000; owner, George Urstadt, North Third Ave., cor. One Hundred and Fifty-third St.; architect and builder, J. C. Stichter.

West Fifty-seventh St., No. 517, three-story brick stable, tin roof; cost, \$25,000; owner, Conrad Stein, 221 West Fifty-seventh St.; architect, J. Kastner.

Madison Ave., s a, 100' n One Hundred and Eighty-third St., two-story frame dwell., tin roof; cost, \$2,700; owner, Auguste J. Paris, 208 Vanderbilt Ave., Twenty-fourth Ward; architect, W. W. Gardner; builder, J. Knox.

Arce Ave., w a, 129' s Fifty-eighth St., five-story brick tenement, tin roof; cost, \$10,000; owners, P. & J. F. McManus, 181 East Fifty-seventh St.; architect, J. H. Valentine; builder, J. F. McManus.

Fourth Ave., n e cor. One Hundred and Twenty-eighth St., 2 four-story brick tenements and carriage shop, gravel roofs; cost, \$10,000 and \$12,000; owner, Chas. G. Schindler, 77 East One Hundred and Twenty-fifth St.; architect, B. Walther.

St. Nicholas Pl., s a, 50' n One Hundred and Fifty-first St., four-story stone, brick and terra-cotta dwell., slate and tin roof; cost, about \$30,000; owner, M. Van Rensselaer, 311 East Thirty-seventh St.; architect, O. Pfeiffer; builder, F. Lyons.

Water St., Nos. 640 and 642, 2 five-story brick tenements, tin roofs; cost, each, \$8,000; owners, Hedwig Barker, 273 Delancey St., and Leonard E. Frosch, 60 Cannon St.; architect, J. Boskell; builder, H. Harker.

Tenth Ave., No. 128, five-story brick tenement, tin roof; cost, \$18,000; owner and architect, Matthew Colligan.

Second Ave., s w cor. One Hundred and Twenty-eighth St., 4 five-story brick tenements and stores, tin roofs; cost, each, \$10,000; owners, Alexander F. Ketchum, 32 Mt. Morris Ave., and others; architect, Geo. Martin Huss.

St. Nicholas Pl., w a, 50' 10" n One Hundred and Fifty-sixth St., three-story stone and frame dwell., tin roof; cost, \$5,000; owner, Henry Moll, 1876 First Ave.; architect, John Brandt.

One Hundred and Tenth St., s a, 125' s Fourth Ave., 4 five-story brown-stone frame dwellings, tin roofs; cost, each, \$20,000; owner, John Van Jolosen, Bedford Flats, Eighty-second St., cor. Tenth Ave.; architect, A. Spence.

One Hundred and Fifty-ninth St., s a, 200' s Elton Ave., three-story brick and frame dwell., tin roof; owner, Mary Ogden, 1049 Washington Ave.; builders, John Freese and Alex. Weir.

Morris Ave., s e cor. One Hundred and Forty-sixth St., three-story frame dwell. and store, tin roof; cost, \$3,200; owner, Theresa Tompkins, 676 East One Hundred and Forty-fifth St.; architect, H. S. Baker; builder, Ed. Gustavson.

West Seventy-second St., Nos. 418, 420, 422, 424 and 426, 5 four-story brown-stone frame dwellings, tin roofs; cost, each, \$25,000; owner, Geo. W. Hamilton, 408 West Seventy-first St.; architects, Thom & Wilson, done by day's work.

West Fifty-fifth St., Nos. 414 and 416, 2 five-story brick tenements, tin roofs; cost, \$6,000 each; owner, Adolph Koschel, 183 Fourth Ave.

referred to the seventeenth century, during the latter half of which St. Philibert, Abbot of Jumièges, built a convent here for the community of nuns. The monastery was richly endowed, but no records are left of its history previously to the incursion of the Normans, under whose hands it at first suffered the same destruction as the other religious houses in Neustria, and afterward rose, like them, from its ashes with increased splendor and opulence. The immediate successors of Rollo rebuilt the abbey, but without restoring it to its original distinction.

The church of Montivilliers, represented in the present plate, is the same as before the revolution, belonged to the abbey. The portion toward the north is the chapter-house, and is the work of the fourteenth century. The greater part of the building, though altered in some places, may safely be referred to the eleventh, at which time it is upon record, that Elizabeth who succeeded Beatrice as abbess, nearly, if not altogether, rebuilt the whole. At subsequent periods the church underwent many considerable repairs and alterations. A sum of seven hundred florins was expended upon it in 1370, the proceeds of a fine imposed upon the town for some injuries done to the nuns; and Toussaints Varrin, the archbishop of Thessalonica, dedicated the edifice in 1513 under the protection of the holy virgin. Five years subsequently the abbess, Jane Mustel, repaired the ceiling and painted the windows, and made the stalls in the choir.

The exterior of the lady-chapel affords a fine example of early pointed architecture; its lofty narrow windows are separated by slender cylindrical pillars, as in the church of the Holy Trinity at Caen. The embattled ornament round the southern door of the western front is far from commonly seen in such situations; in the interior of the nave the same massive semicircular architecture prevails as in the towers, but it is mixed with some peculiarities that will scarcely be found elsewhere, particularly a flat band in the form of a pilaster, enriched with lozenges, which is attached to the front of one of the columns, and is continued over the roof, and again down the pillar on the opposite side. Mr. Turner noticed a small gallery or pulpit, of filigree stone-work, at the west end, near the roof; and upon the authority of the well-known antiquary, John Carter, he supposed it most probably intended to receive a band of singers on high festivals; but some corresponding erection in England would make it seem more likely that this gallery communicated with the apartments of the superior, and was placed here for the purpose of affording her the means of paying her devotions in private, when either from the weather or any other cause, she might not wish to occupy her throne in the choir.

Mr. Turner has also remarked upon the capitals of the columns at Montivilliers, which are very peculiar. Some of them are obvious imitations of the antique pattern, and of great beauty, others are rude and wild.

The mysteries of Christianity, and the fables and allegories of heathenism, the latter, as well in its most refined as its most barbarous forms, occur in endless variety in almost every part of the edifice; one of the capitals contains a representation of the fabulous Sphynx, with her tail in a fleur-de-lys; upon another, is sculptured a figure of Christ in the act of destroying the dragon, by thrusting the end of a crosser into his mouth. Two others, figured in the "Tour in Normandy," exhibit a group of Centaurs, and the allegorical *psycostasie*: the remarks of the author of that publication, upon the latter of these shall close their article.

"In this you observe an angel weighing the good works of the deceased against his evil deeds, and as the former are far exceeding the avoirdupois upon which Satan is to found his claim, he is endeavoring most unfairly to depress the scale with his two-pronged fork. This allegory is of frequent occurrence in the monkish legends. The saint, who was aware of the frauds of the fiend, resolved to hold the balance himself. He began by throwing in a pilgrimage to a miraculous virgin. The devil pulled out an assignation with some fair mortal Madonna, who had ceased to be immaculate. The saint laid in the scale the sack-cloth and ashes of the penitent of Lenten time. Satan answered the deposit by the vizard, and leafy robe of the masker of the carnival. Thus did they continue equally interchanging the sorrows of godliness with the sweets of sin, and still the saint was distressed beyond compare, by observing that the scale of the wicked thing (wise men call him the correcting principle) always seemed the heaviest. Almost did he despair of his client's salvation, when he luckily saw eight little jetty black claws just hooking and clutching over the rim of the golden basin. The claws at once betrayed the craft of the cloven foot. Old Nick had put a little cunning young devil under the balance, who, following the dictates of his senior, kept clinging to the scale, and swaying it down with all his might and main. The saint sent the imp to his proper place in a moment, and instantly the burthen of transgression was seen to kick the beam. Painters and sculptors also often introduced this ancient allegory of the balance of good and evil in their representations of the last judgment; it was even employed by Lucas Cranach."

DETAILS FROM THE STORE OF R. H. WHITE & CO., BOSTON, MASS.
MESSRS. PEABODY & STEARNS, ARCHITECTS, BOSTON, MASS.

AN exterior view of this building was published in the *American Architect* for September 15, 1883.

¹ "Description de la Haute Normandie," 11, p. 108.
² "Tour in Normandy," 1, p. 63.

THE CATHEDRAL, ZAMORA, SPAIN.

For a description of this building see the *American Architect* for May 10, 1884, page 220.

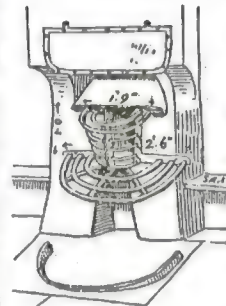
THE WASHBURN BUILDING, ANOKA, MINN. MESSRS. DUNNELL & ELLIOT, ARCHITECTS, MINNEAPOLIS, MINN.

THE ground floor of this building, which is owned by the Hon. W. D. Washburn, is occupied by the Anoka National Bank and three stores.

HOUSE OF C. T. YERKES, ESQ., CHICAGO, ILL. MESSRS. BURLING & WHITEHOUSE, ARCHITECTS, CHICAGO, ILL.

THE cost of this building is to be \$80,000.

INSPECTING AND TESTING THE SANITARY ARRANGEMENTS OF HOUSES.¹



An old Grate in the City Barge Post-House, Cheswick, Eng.

DOUBTS have been expressed as to whether it is possible for the officers of a sanitary authority to find sufficient time to properly inspect and test the sanitary appliances of all the houses in its district. Judging by the staff and assistance usually accorded to such officers I think we may come to the conclusion that such doubts are fully justified. It has been found from actual experience:—

I. That the drains and sanitary appliances of all houses should be examined and tested not less than once a year.

II. That one inspector, giving his whole time to the duty cannot inspect and test more than an average of four hundred houses per annum.

It seems, therefore, improbable that any sanitary authority would keep a sufficiently large staff of inspectors to test every house once a year, even if they had the power to make it compulsory. This average, however, would in practice be very much reduced from various causes, such as the establishment of the Sanitary Inspection Associations, which are daily gaining favor and influence, and also by the attention given to this subject by owners of the better class of houses, who prefer to have their houses (especially when they occupy them) dealt with by private engineers. These and similar causes take a number of the larger and more complicated cases out of the category, and leave to the public inspectors chiefly those houses whose owners are unwilling, or whose occupiers are unable to pay for the inspection and test.

It must be regretted that the sanitary laws empowering compulsory inspection and control of drainage, and other sanitary arrangements fall so far short of what is required to make them practically useful; on the other hand, to have a private house invaded by the corporation officers, without notice, would be well nigh intolerable, but after all the notices and times of probation enjoined by the Acts have expired, and the officer becomes entitled to inspect the premises, the powers and facilities allowed him by law appear to be too restricted to result in thorough investigation, much less remedy. The law, however, does reach all that comes under the head of "Drainage," and the most efficient way of testing the drainage is a subject probably well known to all of us, but still I trust worthy of our present attention and discussion. Further than this, there must be hundreds of householders who are not only willing but anxious to have the sanitary arrangements inspected and tested by the corporation officer in preference to any private source, and I assume that it must be the desire, as well as the duty, of every member of this association, holding an appointment under a sanitary authority, to be able to respond to such a call in a way equally thorough and efficient with that of any officer of a sanitary protection association or a private engineer.

I am quite conscious that to many here to-day I am able to communicate nothing new; but I venture to occupy your attention, hoping to promote such a discussion as will develop and accentuate the knowledge we already have. The first step seems naturally to be to ascertain whether the drainage from the house is actually running freely from the premises and in its proper channels, into the main sewer. Where the entrance to the main sewer is by means of a disconnecting or inspection shaft this can be easily ascertained; but where the house-drain is actually connected into the sewer there is nothing for it but to dig down and expose it to view. In the latter case, when the ground is open, it is easy to construct an inspection shaft or man-hole, which shall not only enable future inspection to be made readily and without expense, but will isolate the drainage from the common sewer, and each house from its neighbor. I take it that this is a primary step in preventing the spread of infection by means of the drains. The man-hole or disconnecting shaft should be ventilated, and should be trapped against the sewer, and the connection of the house-drain into the shaft left open so that a current of fresh air may pass up the drain-pipe. Between the man-hole or common sewer and

¹ A paper by Mr. J. P. Spencer, read before the Association of Municipal and Sanitary Engineering and Surveyors, and published in the *Building News*.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

- 303,841. COMBINATION-TOOL FOR CARPENTERS. — P. J. King, Valley City, Dak.
- 303,884. FIRE-EXTINGUISHING LAMP. — Friedrich O. Reischer, West Point, Io.
- 303,888. SPIKE-EXTRACTOR. — Edgar T. Sharp, Boston, Mass.
- 303,912. STEAM-HEATER. — Jerome L. Boyer, Columbus, Pa.
- 303,917. AUTOMATIC FIRE-EXTINGUISHER. — Joseph H. Brown, Bridgeport, Conn.
- 303,918. CHIMNEY-COWL. — Abram S. Capper, Udall, Kans.
- 303,919. WEATHER-STRIFF. — John A. Cozad, Merced, Pa.
- 303,921. METALLIC ROOFING-SHINGLE. — William H. Cusack, Nashville, Tenn.
- 303,922. AIR OF BRICK-MANUFACTURE. — James L. Durruth, Hamilton, O.
- 303,936. DASH-FASTENER. — John McPherson Lowrey, Jonesborough, Va.
- 303,939. LATHING FOR FIRE-PROOF BUILDINGS. — Joseph Manning, Clinton, Mass.
- 303,974. WOOD-TURNING LATHE. — Frank H. Foster and David J. White, Chelsea, and Rufus Holman, Boston, Mass.
- 304,000. WATER-CLOSET. — Kilian Hartmann, Cleveland, O.
- 304,002. MACHINE FOR SHAPING SHEET-METAL FOR ARCHITECTURAL PURPOSES. — George Hayes, New York, N. Y.
- 304,004. HOIST-ELEVATOR. — Albert T. Hull, New York, N. Y.
- 304,005. BRICK-MAKING MACHINE. — Geo. W. Hardy, Keokuk, Io.
- 304,012. CEMENT FOR CHIMNEYS, ROOFS, ETC. — Bernard M. O'Neill, St. Louis, Mo.
- 304,014. WINDOW. — Albert Schmiedel, Welleburg, W. Va.
- 304,014. MANUFACTURE OF PAINTED WINE-CLOTH. — Chester F. and Theodore H. Wickwire, Cortland, N. Y.
- 304,159. COMBINED LATCH AND LOCK. — Frederick James Riggs, London, Eng.
- 304,171. SASH-HOLDER. — Peter Cuslin, Chicago, Ill.
- 304,183. WINDOW. — Christopher Columbus Davis, Flemingsburg, Ky.
- 304,192. MEANS FOR WITHDRAWING LATCH-BOLTS. — James J. Hall, New York, N. Y.
- 304,196. COMBINED TONGUE AND BEVEL. — Wilber F. Hill, North Manchester, Conn.
- 304,201. TRUCK-TRUCK. — Joseph F. Langins, Cincinnati, Ohio.
- 304,212. FIRE-ESCAPE. — Larned D. V. Mason, New York, N. Y.
- 304,213. WEATHER-STRIFF. — Daniel D. Mayfield, Pleasantville, Ind.
- 304,220. CARPENTER'S VISE. — John F. Miller, Pittsburgh, Pa.
- 304,221. DEVICE FOR TINTING AND SHADING SKETCHES AND DRAWINGS. — Charles F. Muellermann, Cincinnati, O.
- 304,222. SLIDING SASH FOR BIRD-CAGES, ETC. — John W. Morrison, Boston, Mass.
- 304,226. BRICK-MACHINE. — Geo. E. Noyes, Washington, D. C.
- 304,231. LEVEL AND PROTRACTOR. — John C. Hay, Washington, D. C.
- 304,245. RULE FOR MEASURING AND DRAWING. — Henry Ed. Thomas, San Francisco, Cal.
- 304,246. MORTISE-PLANE. — William Ashford Tolton, Bedford, Pa.
- 304,271. COMBINED LOCK AND LATCH. — Elijah Nywonger, Hanford, Cal.
- 304,283. BRICK-MACHINE. — Porter L. Sword, and Charles D. Sword, Adrian, Mich.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS. — Since our last report nineteen permits have been granted, the more important of which are the following: —
 Thos. A. Crane, 2 three-story brick buildings, w s Diamond St., bet. Saratoga and Mulberry sts.
 Owen McKenna, 2 three-story brick buildings, s s Chase St., e of McKim St.
 Geo. C. Herdman, 12 two-story brick buildings, s s Enoch St., bet. Hollis and Preston sts.
 C. Holman, 2 two-story brick buildings, s s Monument St., w of Chestnut St.
 Mathias & Ingram, two-story brick building, 30 x 40, and one-story brick building, 40 x 50, s s Willis St., bet. Light and Byrd sts.
 L. C. Smith, 3 two-story brick buildings, s s Heath St., bet. Hanover St. and Goodman's Alley.

Aug. Pahl, 4 two-story brick buildings, w s Burke St., s of Monument St.
 The labor quotations for September remain unchanged.

Boston.

BUILDING PERMITS. — Hancock St., near Florence St., Ward 23, for A. F. Hughes, dwell., 20' 6" x 34' 6", pitch; A. F. Hughes, builder.
 Whitney St., near Tremont St., Ward 22, for E. F. Mahoney, 4 dwells., 22' x 40', flat; W. Ballantyne, builder.
 Everett St., near Cottage St., Ward 2, for G. W. Hartgrave, 4 dwells., 19' 6" x 31', flat; U. W. Hartgrave, builder.
 Skinner St., near Washington St., Ward 23, for L. B. Clifford, dwell., 12' x 20' and 22' x 32', pitch; A. Koger, builder.
 Commercial St., opp. Mill St., Ward 24, for Jno. Cotter, boat-house, 12' x 20', pitch; Jno. Cotter, builder.
 Commonwealth Ave., near Washington St., Ward 25, for J. J. Connors, stable, 20' x 40', pitch; Stephen Holman, builder.
 Parker St., Ward 23, for Margaret G. Devar, dwell., 22' x 34', pitch; Swanson & Murray, builders.
 Unnamed St., off Walnut St., Ward 23, for J. A. Davis, dwell., 17' x 32', pitch; J. H. Burt & Co., builders.
 Washington St., No. 2040, Ward 21, for Patrick F. Sumner, dwell. and store, 20' x 26', flat; Michael Sullivan, builder.
 Olney St., near Geneva Ave., Ward 24, for Thos. S. Cox, dwell., 20' x 30', pitch; L. Bates, builder.
 Glen Road St., near Blue Hill Ave., Ward 23, for City of Boston, summer-house, 20' x 40', pitch; City of Boston, builder.
 Walnut St., near Glen Road St., Ward 23, for City of Boston, summer-house, 20' x 40', pitch; City of Boston, builder.
 Scarborough St., near Walnut St., Ward 23, for City of Boston, summer-house, 20' x 40', pitch; City of Boston, builder.
 Wyomung St., near Warren St., Ward 21, for S. M. Sharpley, 2 dwells., 19' x 20' and 20' x 30', pitch; S. M. Sharpley, builder.
 Wiclow St., near Market St., Ward 25, for Reuben Abbott, 2 dwells., 14' x 10' and 20' x 20', pitch; W. B. Favon, builder.
 Saratoga St., No. 60, Ward 1, for T. O. Power, dwell., 17' x 24' and 21' x 32', mansard, T. O. Power, builder.
 Prospect St., No. 82, Ward 3, for T. O. Connors, dwell., 20' x 26', flat; E. J. Tully, builder.
 Parker St., near Parker Hill Ave., Ward 23, for Jos. Hennessy, dwell., 20' x 44', hip; Sam'l Statin, builder.
 C St., No. 203, cor. West First St., Ward 19, for R. J. and F. H. Monks, shop, 30' x 30', flat; Patrick Morgan, builder.
 West North St., No. 43, for Thos. Heaney, dwell., 22' x 44', flat; M. S. & O. Miller, builder.
 Monmouth St., n Dudley St., Ward 30, for Miss Dowd, dwell., 20' x 62' 6", pitch; W. J. Jobling, builder.
 Lincoln St., near Westville St., Ward 24, for O. A. Hauck, dwell., 8' 6" x 12' and 24' x 30', pitch; Parkman & Russell, builders.
 Dorchester Ave., near Dorchester St., Ward 15, for R. Campbell, store and office, 20' x 20', flat; David Angell, builder.
 Princeton St., No. 38-40, Ward 3, for B. F. Campbell, 2 dwells., 18' x 30' and 20' x 33', mansard, Frame & Patton, builders.

Brooklyn.

BUILDING PERMITS. — Monroe St., s s, 24' 6" x Throop Ave., 12 three-story brown-stone dwells.; cost, each \$4,000; owner and builder, John F. Ryan, 151 Hlews St.; architect, John Herr.
 St. Marks Pl., e s, 150' x New York Ave., three-story brick dwell., slate roof; cost, \$30,000; owner, Henry L. Wardwell; architect, Theo. P. Chappell; builders, James Ashford & Son and Myron C. Rush.
 Park Ave., n s, 212' x Samuel Ave., three-story frame (brick-filled) tenement, tin roof; cost, \$1,000; owner and builder, Chas. Meyer, 20 Adams St.; architect, John Herr.
 Myer St., No. 115, three-story and basement brick dwell., tin roof; cost, \$5,000; owner, German Evangelical Lutheran St. John Church, 187-191 Myer St.; architect, Th. Engelhardt; builders, J. Rauth & J. S. Roepfer.
 Atlantic Ave., s s, 440' x Troy Ave., 4 two-story frame dwells., brick-filled, gravel roofs; cost, each \$2,500; owner, Cora Mallon, Lewisburg, Pa.; architect and builder, Essex, Robert.
 Wyckoff St., s s, 51' x Fifth Ave., four-story brick tenement, tin roof; cost, \$ 750; owner, Robert H. Henson, 430 Wyckoff St.; arch.itect, T. F. Houghton; builders, Pitman & Reed and J. Laird.
 Lafayette Ave., s s, 218' 4" x Throop Ave., 4 two-story brick dwells., tin roof; cost, each, \$3,000; owner, etc., John K. Bulmer, 214 Adelphi St.
 Stockton St., n s, 100' x Sumner Ave., three-story frame tenement, tin roof; cost, \$4,000; owner, H. Wells, 247 Stockton St.; architect, H. Vollweiler.
 Rutherford Pl., n s, 100' x Bushwick Ave., 6 two-story flats, tin roofs; cost, each, \$2,700; owners, etc., Coline & Maccone, 307 Evergreen Ave.
 Sumner Ave., s w cor. Hart St., three-story brown-stone store and dwell., tin roof; cost, \$7,000; owner, H. F. Clayton, 401 Fourteenth St.; architect, W. F. Clayton.
 Bergen St., s s, 125' x Albany Ave., 2 frame dwells.; cost, each, \$1,000; owner, Peter Young, 250 McDonough St.; architect and builder, W. J. Conway.
 Monroe St., s w cor. Throop Ave., four-story brown-stone store and tenement, tin roof; owner, builder and architect, same as last.
 Atlantic Ave., n s cor. Bedford Ave., 195' on Atlantic Ave., rear, two-story brick skating-rink, fire-proof tile roof; cost, \$25,000; owner, Island Tattle & Co. on premises; architects, A. B. Ogden & Son.
 Wyckoff St., n s, 120' x Bond St., three-story brick tenement, tin roof; cost, \$5,000; owner, Patrick Gill, Philadelphia; architect, L. D. Reynolds; builder, P. Nolan.
 Pierrepont St., s s, 40' x Fulton St., four-story brick apartment-house, tin roof; cost, \$25,000; owner,

Gordon L. Ford, 97 Clark St.; architect, Carl F. Kuehnach; builders, Donlon & Walton and Morris & Schovatt.

Jefferson St., s s, 125' x Hamburg Ave., 2 three-story frame tenements, tin roofs; cost, each, \$3,800; owner, Ang. Reimer, 119 Troutman St.; architect, Geo. Hillenbrand; builders, Leonard Erk and Fred. Stemmler.

Seventeenth St., s s, 100' x Fifth Ave., three-story brick storehouse, tin roof; cost, \$3,500; owner, Morris Naas, 674 Fifth Ave.; architect, W. H. Wirth; builder, John Anderson.

Twentieth St., n s, 150' x Third Ave., 5 three-story frame tenements, tin roofs; cost, each, \$3,000; owner and builder, J. Mahoney, 101 Third Ave.; architect, W. H. Wirth.

Nostrand Ave., n e cor. Clifton Place, four-story brick store and flats, tin roof; cost, \$12,000; owner, A. B. Borchard, 323 Clifton Place; architect, Chas. Werner; builder, M. Ryan.

Seigel St., No. 161, n s, 200' x Humboldt St., three-story frame (brick filled) tenement, tin roof; cost, \$3,700; owner, Margaret Dowling, on premises.

North Ninth St., s s, 175' x Fourth St., 2 four-story frame (brick filled) tenements, tin roofs; cost, each, \$5,000; owners, Louis Schafer and Franz Koe; architect, L. Schiefer; builders, Gately & Smith and John Fallon.

Moore St., No. 23, s s, 125' x Ewen St., three-story frame (brick filled) store and tenement, tin roof; cost, \$4,000; owner, August Rosler, 30 Moore St.; architect and builder, Julius J. Smith.

Arkmyer St., n s, 138' x Nostrand Ave., 2 three-story brick dwells., mansard, slate and tin roofs; cost, \$11,000; owner and builder, Andrew Miller, Pacific St.; architect, A. Hill.

North Eighth St., s s, 175' x First St., two-story and cellar brick shop, gravel roof; cost, \$4,000; owners, B. & Meyer; builder, J. Rodwell.

Sumpter St., s w cor. Fitch Ave., three-story Trenton brick store and tenement, tin roof; cost, \$3,000; owner, John Quell, cor. Sumpter and Fitch Ave.; builders, Ernst Suterline and Jacob Pirung.

Fourth Ave., s s, 75' x Twenty-eighth St., three-story frame tenement, tin roof, cost, \$3,500; owner, A. Stockman, 735 Fourth Ave.; architect, — Skinner; builder, Daniel Fitzerald and J. Skinner.

Humboldt St., s s, 140' x Wilbers St., three-story frame (brick filled) tenements, tin roof; cost, each \$3,700; owner, Daniel Keefe, 551 Grand St.; architect, A. Herbart; builder, Christian Buchheit.

ALTERATIONS. — Broadway, No. 291, add two stories, tin roof; cost, \$4,000; owner, W. F. Quade; architect, L. Thomas.

Chicago.

BUILDING PERMITS. — The Board of Education, school-house, 125 Courtland St.; cost, \$40,000; architect, J. F. Flinders; builder, J. Oleson.

The Presbyterian Ch. Soc. Seminary, 7 two-story dwells., Balduin and Fremont sts.; cost, \$30,000; architect, A. M. T. Cotton; builder, L. Welch.

J. Hayden, three-story store and flats, 443 West Twelfth St.; cost, \$11,000; architect, A. York; builder, J. Hayden.

A. Row, two-story dwell., 378 West Adams St.; cost, \$2,000; architect, J. L. Merian; builder, A. Burner.

D. W. Eldred, two-story dwell., 812 West Adams St.; cost, \$4,000; architect, J. Ackerman; builder, F. McNally.

McCormick Estate, five-story store, 142 and 144 South Water St.; cost, \$23,000; architect, A. F. Condon; builders, J. M. Dunphy & Co.

C. M. Swanson, addition, 303 Laughton St.; cost, \$5,000.

C. Modson, three-story flats, 32 Centre Ave.; cost, \$4,500; architect, H. Kolwoldt; builders, Rodgers & Cook.

W. Lester, 3 two-story flats, 430 to 443 West Indiana St.; cost, \$6,000; architect, H. K. Wilson; builder, A. Hurman.

J. W. Reedy, four-story addition, 83 Illinois St.; cost, \$12,000; builder, C. Moes.

M. Hestorich, 2 three-story stores and flats; cost, \$10,000; architect, E. C. Kell; builder, B. Guilford.

M. Cohn, two-story store and dwell., 777 Milwaukee Ave.; cost, \$7,000; architect, H. Kley; builder, A. Heide.

J. Wolf, three-story flats, 532 West Fourteenth St.; cost, \$5,000; architect, Reckling.

J. Rutledge, two-story dwell., 511 West Polk St.; cost, \$4,000.

J. McAlwee, three-story store and dwell., 377 Ogden Ave.; cost, \$1,500.

B. Weinacht, three-story store and flats, 334 and 336 Cottage Grove Ave.; cost, \$9,000; builder, H. Apol.

J. S. Kirk & Co., five-story addition, 368 and 370 North Water St.; cost, \$20,000; architects, Edbrooke & Burnham.

J. Slakeboud, three-story flats, 1518 Milwaukee Ave.; cost, \$8,500; architect, H. Kley.

J. W. Emrick, two-story flats, 721 North Wab St.; cost, \$5,000; architect, Messner; builder, L. Hankin.

North Chicago City Railway Co., two-story barn, 535 and 537 Sedgwick St.; cost, \$7,000.

G. Kriggs, two-story dwell., 836 South Halsted St.; cost, \$2,500.

J. Manavago, three-story flats, 211 Townsend St.; cost, \$3,000.

H. Wagnan, three-story flats, 337 Adams St.; cost, \$10,000; architect, J. M. Van Osdel.

B. Titus, 2 three-story flats, 3158 and 3160 Forest Ave.; cost, \$5,000; architect, H. Ray, Jr.

E. Morton, 7 three-story flats, Schor and Desplaines sts.; cost, \$10,000; architect, F. Felton; builders, Geo. W. Brown & Co.

H. Engel, two-story store and dwell., 839 Twenty-first St.; cost, \$3,500.

D. Foley, two-story dwell., 479 South Wood St.; cost, \$2,500.

J. Salomon, three-story addition, 236 East Division St.; cost, \$1,500.

W. Johnson, three-story flats, 184 Carpenter St.; cost, \$3,000; architects, Edbrooke & Burnham; builders, Olson & Co.

Dr. Duff, three-story flats, 210 Sedgwick St.; cost, \$1,000.

M. Hirsch, 2 two-story dwellings, 201 and 203 Ashland Ave.; cost, \$12,000.
A. Astrelin, three-story flats, 222 North Sangamon St.; cost, \$3,400; architect, J. P. Herlin.
J. Campbell, three-story store and flats, 403 Blue Island Ave.; cost, \$6,000; architect, W. Strippelman.
T. Sennott, two-story flats, 211 Loomis St.; cost, \$7,000; architect, G. Vigan; builders, Geo. Lehman & Co.
J. Hunke, two-story dwelling, 35 Jay St.; cost, \$3,000.
H. C. Morey, three-story dwelling, 542 Jackson St.; cost, \$8,000; architect, J. J. Flanders.
Mrs. M. A. & M. T. McCarthy, two-story flats, 75 and 77 Finell St.; cost, \$4,000; architect, J. H. Huber; builders, McCarthy & Co.
L. Stach, one-and-one-half-story cottage, 28 Lincoln Pl.; cost, \$3,000.

Cincinnati.

BUILDING PERMITS. — Mr. Schway, two-story brick dwelling, cor. Coleman St. and Central Ave.; cost, \$2,600.
A. Geobrecht, four-story brick dwelling, cor. Twelfth and Walnut Sts.; cost, \$4,000.
Chas. Hess, three-story brick dwelling, 32 Broome St.; cost, \$4,000.
A. J. Hunt, two-story frame dwelling, cor. Skillito and Elm Sts.; cost, \$2,200.
Andy Roeder, one-and-one-half-story frame dwelling, cor. Chatham St. and Clifton Ave.; cost, \$2,000.
Repairs (6 permits); cost, \$3,000.
Total permits to date, 599.
Total cost to date, \$2,408,365.

New York.

CHURCH. — On the n.e. of One Hundred and Fiftieth St., bet. Third and Fourth Aves., a Roman Catholic Church, 102 x 110, of granite, is to be built, from designs of Mr. H. J. Dudley.
STABLE. — Stable, brick and terra-cotta, One Hundred and Twenty-fifth St.; owner, Benjamin F. Splink; architect, Gilbert & Thompson.
BRICK. — On the w. cor. of Fulton and Front Sts., a five-story building, 62 x 90, of Philadelphia brick with stone finish, is to be built by Mr. B. Sive, at a cost of \$5,000; from designs of Mr. Wm. Gravel.

FLATS. — Three five-story brick and brown-stone flats, with stores, 25 x 60, each, are to be built on the e.s. of Eighth Ave., s.e. of One Hundred Twenty-third St., for Mr. Lorenz Weller, at a cost of \$33,000; from designs of Mr. J. F. Hurday.
Two five-story brown-stone flats are to be built, for Mr. S. Haberman, on One Hundred and Thirtieth St., 130 x 7, of Fourth Ave.; from designs of Mr. H. J. Dudley.
At Nos. 511-517 West Sixty-first St., 4 five-story brick and brown-stone flats, 25 x 85, each, are to be built for Mr. Louis Reichart, at a cost of about \$70,000; from plans of Mr. Julius Kautner.
On the e. cor. of One Hundred and Thirtieth St. and Fourth Ave., 7 five-story brick and brown-stone flats with stores, 25 x 85, each, are to be built for Mr. Wm. Henderson, at a cost of \$120,000; from designs of Mr. John C. Burns.

At Nos. 410 and 412 West Seventeenth St., 2 five-story brown-stone flats with stores, 25 x 85, each, are to be built for Mr. E. Seitz, at a cost of \$35,000; from designs of Mr. John Brandt.
At Nos. 432 and 444 West Fifty-fourth St., 2 five-story brick and brown-stone flats with stores, 25 x 82, each, are to be built, at a cost of \$41,000; from designs of Mr. Julius Kautner, for Mr. Louis Reichart.

BUILDING PERMITS. — Fortyth St., No. 121, five-story brick tenement and store, tin roof; cost, \$16,000; owner, Barbara Fuhlbach, 835 Second Ave.; architect, Wm. Gravel.
Fifty-fifth St., Nos. 117 and 149, n.e. 125 x 7, seven-story brick and stone stable, gravel roof; cost, \$16,000; owner, A. H. Barney, 101 East Thirty-ninth St.; architect, O. H. Thompson; builder, J. C. Miller.

Tenth Ave., s.w. cor. Forty-eighth St., four-story brick store and tenement, tin roof; cost, \$20,000; owner, Mrs. C. Miller, 449 West Fiftieth St.; architect, A. Pfund & Son.
Eighty-first St., n.e. 331 x 7, five-story brick tenements, tin roof; cost, each, \$18,000; owner, Mathias H. Schneider, 1459 Avenue A.; architect, J. Kautner.

One Hundred and Eighteenth St., s.e. 65 x 7, Avenue A, three-story brick office-building, tin roof; cost, \$20,000; owner, R. H. Wolf & Co., limited, 93 John St.; architect, Schwartzmann & Buchman.

Seventy-ninth St., s.e. 129 x 7, Avenue A, three-story brick tenement, tin roof; cost, \$3,000; owner, Eva Muller, 440 East Seventy-ninth St.; architect, J. C. Miller.

Fifth Ave., n.e. cor. Ninetieth St., one-story brick riding school, metal and tin roof; cost, \$20,000; owner, Carl Anthony, Fifth Ave., cor. Ninetieth St.; architect, M. Schmitt.

Sixty-sixth St., s.e. 325 x 7, Tenth Ave., five-story brick tenement, tin roof; cost, \$14,000; owner, Margaret Shuman, 150 Ninth Ave.; builder, Thos. Shuman.
Seidewitz Ave., w.e. 110 x 7, One Hundred and Seventy-eighth St., m. Morris Dock, three-story frame dwelling, slate and tin roof; cost, \$6,500; owner, Lydia A. McIntyre, Morris Dock; architect, C. Baxter.

Third Ave., n.w. cor. One Hundred and Thirty-eighth St., three-story brick store and tenement, tin roof; cost, \$7,000; owner, Bryan Gaffney, on premises; builder, E. Gustavson.

ALTERATIONS. — Alterations and additions to Nos. 5 and 7 East Sixteenth St., for D. K. Lyddy; cost, \$25,000; J. M. Merrick, architect.

Broadway, No. 311, build boiler due, new stairs, elevator and repairs; cost, \$10,000; owner, D. Jackson Stewart, 150 Fifth Ave.; architect, Samuel A. Warner.

Eleph Ave., n.e. about 50 x 7, One Hundred and Fifty-sixth St., five-story brick and stone extension for meat house, tin roof; cost, \$1,000; owners, P. & Wm. Ebling, One Hundred and Fifty-sixth St. and St. Ann's Ave.; architects, A. Pfund & Son.

Philadelphia.

BUILDING PERMITS. — Queen St., No. 23, two-story dwelling, 16 x 40; S. E. Hughes, owner.

North Ninth St., No. 1603, three-story dwelling, 16 x 42; W. R. Dougherty, contractor.
Dunlap St., w. of Thirty-second St., 10 two-story dwellings, 16 x 30; R. D. Gibson, contractor.

Pinebar St., No. 1314, two-story malt-house, 25 x 31; Henry Moore, owner.
Twenty-eighth St., cor. Jefferson St., three-story store and dwell., 16 x 60; W. H. Polo, contractor.

Norris St., e. of Fifth St., two-story dwelling, 16 x 42; Bernard Tooker, owner.
High St., bet. Hancock and Morton Sts., two-story stone chapel, 22 x 60 x 60; T. W. Wright & Sons, contractors.

Johnson St., bet. Musgrave and Morton Sts., three-story stone dwelling, 41 x 40; T. W. Wright & Sons, contractors.
Seventeenth St., n. of Ontario St., 4 three-story dwellings, 16 x 41; H. A. Miller, contractor.

Lancaster St., w. of Thirty-ninth St., 20 two-story dwellings, 16 x 40; Fred L. Mickelson, owner.
Elbert St., Nos. 1707 and 1709, five-story carriage-factory, 40 x 117; Kinter & Urm, contractors.

Oral St., s.e. of Somerset St., 4 two-story dwellings, 14 x 40; Dickson Bros., contractors.
Garrett St., s.e. of Hart Lane, 2 two-story dwellings, 16 x 38; Dickson Bros., contractors.

Market St., No. 3010, three-story club-house, 30 x 54; C. F. Barrett, contractor.
Barnard St., s. of Lombard St., two-story stable, 32 x 50; Jno. Devlin, owner.

Somerset St., cor. Belgrade St., 6 two-story dwellings, 1, 16 x 40; 1, 16 x 40; 3, 16 x 40; J. K. Kyle, contractor.
Twenty-seventh St., s. of Brown St., 3 two-story dwellings, 16 x 40; Wm. Charlton, owner.

East Cambridge St., No. 535, three-story dwelling, 16 x 38; W. C. Hadlock.
Barker St., w. of Sixteenth St., three-story stable, 26 x 104; G. S. Corson, contractor.

Green St., cor. Morton St., three-story dwelling, 32 x 30; D. M. Byler, contractor.
Cumbria St., cor. Boulton St., 2 three-story dwellings, 16 x 34 and 16 x 36; P. A. Gearhardt, contractor.

Central Ave., bet. Thirtieth and Thirty-fifth Sts., 3 three-story dwellings, 34 x 35; W. C. Mackie, contractor.
Thirtieth St., n. of Highland Ave., 2 three-story dwellings, 38 x 45; W. C. Mackie, contractor.

North Broad St., Nos. 224 and 226, five-story college building, 70 x 90; Kemp & Garrison, contractors.
Bethlehem Pike, cor. Township Line, three-story dwelling, 35 x 12, and two-story stable, 30 x 45; Geo. Harat, contractor.

Chew St., bet. Meehan and Gorgas Sts., 2 three-story dwellings, 16 x 43; Martin Hetzel, contractor.
Fairhill St., No. 2163, two-story dwelling, 14 x 30; E. Smith, contractor.

Fifth St., n. of York St., two-story dwelling, 16 x 42; J. L. Evans, contractor.
North Fifth St., No. 2992, three-story dwelling, 30 x 40; W. Bartholomew, contractor.

Fifth St., s. of Vantage St., two-story dwellings, 16 x 41; J. B. Vanderhoff, owner.
South Front St., No. 250, four-story store, 19 x 60; J. L. Thoms, contractor.

Herd St., bet. Hahn and Jordan Sts., two-story stable, 16 x 160; Philadelphia Fraction Co., owners.
Cambridge St., bet. Orleans and Third Sts., 16 two-story dwellings, 1, 16 x 32; 3, 16 x 30; 6, 16 x 30; J. J. Moluffes, owner.

Ninth St., cor. Jefferson St., four-story factory, 40 x 100; S. S. Zolny, contractor.
D N. No. 2018, two-story dwelling, 15 x 42; William Bromley, owner.

Pennock St., bet. Parrell and Brown Sts., 7 two-story dwellings, 2, 16 x 40; 5, 16 x 40; Jos. Daly, owner.
Franklin St., n. of Berks St., 10 three-story dwellings, 5, 16 x 17; 1, 17 x 17; A. M. Zaun, owner.

Fourth St., e. of Huntington St., two-story hall, 36 x 50; Lewis Walker, contractor.
Sixth St., cor. Arch St., six-story office-building, 24 x 100; Kuckelbaker & Co., owners.

Hocman St., e. of Kline St., two-story shop, 30 x 30; Jno. F. Lynch, owner.
Fue St., s. of Fifty-fourth St., 2 three-story dwellings, 19 x 50; D. H. Kent, owner.

St. Louis.

BUILDING PERMITS. — Seventy-one permits have been issued since our last report, nineteen of which are for unimportant frame houses. Those worth \$2,500 and over are as follows: —

Charles Braun, two-story tenement; cost, \$2,750; B. J. Giesse, architect; Aulen & Trauel, contractors.
E. Mitchell, 2 adjacent two-story tenements; cost, \$3,700; B. J. Giesse, architect; Aulen & Trauel, contractors.

J. Monahan, two-story tenements; cost, \$2,000; Jno. Costello, contractor.
Th. McNary, two-story addition to Uhlr Cave Hall; cost, \$1,000; sub let.

Pat McNair, two-story dwelling; cost, \$1,800; E. Mortimer, architect; G. Neumeister, contractor.
Joseph Kraminski, two-story tenements; cost, \$3,000; Beckner & Brinkman, contractors.

Mrs. M. Hahn, two-story tenements; cost, \$3,000; H. Braun, contractor.
Mrs. Helen Mueller, 2 adjacent two-story dwellings; cost, \$3,200; Steward & Co., architects; sublet.

Chas. Meisenbrink, two-story tenements; cost, \$2,750; Aug. Dieke, contractor.
F. Delster, two-story tenements; cost, \$3,750; G. M. Roeder, contractor.

Geis. Enger, two-story dwelling; cost, \$3,000; J. C. Brookmeier, contractor.
S. H. Hoffman, two-story dwelling; cost, \$9,700; S. H. Hoffman, contractor.

Jno. Gerst, two-story tenements; cost, \$7,200; B. J. Giesse; Bothe & Bottenman, contractors.
J. H. Vickery, two-story dwelling; cost, \$5,000; McCormack, contractor.

Wm. Martz, two-story dwelling; cost, \$3,000; Jos. Flannery & Bros., contractors.
H. Erbruger, 2 adjacent two-story tenements; cost, \$6,000; H. Erbruger, contractor.

H. Vonder Abt, 2 adjacent two-story tenements; cost, \$4,000; Wm. Paul, contractor.
Jno. Payken, 2 adjacent two-story dwellings; cost, \$7,000; B. J. Giesse, architect; A. Bauer, contractor.

F. Vollmer, 2 adjacent two-story dwellings; cost, \$6,000; J. B. Giesse, architect; A. Bauer, contractor.
H. Heidmann, two-story store and tenement; cost, \$2,000; H. C. Brinkmeyer, contractor.

Willis Pritchett, 2 adjacent two-story dwellings; cost, \$3,000; Paulus & Welschmuller, contractor.
E. Koenigskranz, 2 adjacent two-story tenements; cost, \$7,500; H. Hoffmann, contractor.

St. Louis Post Graduate School of Medicine, two-story brick medical college; cost, \$20,000; F. D. Lee, architect; S. M. Ross, contractor.
Mrs. Jane McKewy, two-story brick dwelling; cost, \$3,000; F. Gray, architect; sublet.

Dennis Downey, two-story double brick dwelling; cost, \$3,900; M. Duin, contractor.
J. E. Murphy, two-story store and tenements; cost, \$5,000; A. K. Kircner, architect; Mulcahey, contractor.

Mrs. A. Pomeroy, two-story brick dwelling; cost, \$5,000; W. J. Hegie, contractor.
Jno. Cowley, 2 adjacent two-story tenements; cost, \$6,000; W. C. Popp, contractor.

H. Schuler, two-story dwelling; cost, \$2,550; Helm Bros., contractors.
P. Witte, two-story dwelling; cost, \$3,000; T. H. Terrence, contractor.

T. Wurm, two-story store and dwelling; cost, \$3,000; P. Henschel, contractor.
Jno. Scholier Bros. Co., two-story brick stable; cost, \$1,000; R. A. Berger & Co., architects.

Stephen Dempsey, two-story double brick tenement; cost, \$2,000; Jno. Waters, contractor.
Mr. W. Noran, two-story brick dwelling; cost, \$3,000; Jos. J. Wharton, contractor.

Aug. Haase, shop and tenements; cost, \$2,700; A. Vase, contractor.
Dr. Bierwerth, two-story brick dwelling; cost, \$5,500; A. Heime & Co., architects; U. H. Postner, contractor.

Blackmann, two-story brick dwelling; cost, \$3,500; L. A. Miller, architect; J. B. Asper, contractor.

General Notes.

KANSAS CITY, Mo., — J. C. Dunn, addition to the Centropolis hotel on East Fifth St.; cost, \$10,000.
LONG BRANCH, N. J., — Hotel Wincennes situated on Ocean Ave.; owner, Jacob Lecheid, 150 x 270; architect, J. W. Merrick, New York; cost, \$50,000.

MINNEAPOLIS, MINN., — A. C. Ogger, two-story frame dwelling on Fourth St., between Twelfth and Thirtieth Aves.; cost, \$3,000.
A. C. Loring, two-story wooden dwelling, s.e. Fifteenth St., between Yale Pl. and Grant St.; cost, \$10,000.

F. A. Danahmor, two-story wooden store, n.w. corner, between Royalston and Border Aves.; cost, \$7,500.
P. W. DeLaney, two-story wooden dwelling, 127 Highland Ave.; cost, \$4,500.

E. S. Palmer, block 4 tenements, brick veneer, Tenth St. and Hawthorne Ave.; cost, \$18,000.
T. B. Lindsey, two-story wooden dwelling, 2107 Portland Ave.; cost, \$2,500.

Mrs. A. J. Herrick, two-story wooden house, w. s. Third Ave., s. bet. Eighteenth and Nineteenth Sts.; cost, \$4,000.
W. W. McNair, two-story brick dwelling on Fifteenth St., bet. Hawthorne and Linden Aves.; cost, \$5,000.

Bids and Contracts.

FRANKFORT, Ky., — The following is an abstract of the bids for furnishing iron columns, beams, etc., for the court-house and post-office.
Mettie & Lyon, \$925.
K. M. Morris, \$1,024.93.
Phoenix Iron Co., \$1,750.
Thos. H. Brooks, \$800.
Shed & Co. Iron Works, \$850.
Cleveland Bridge & Iron Co., \$1,725.35.
J. E. Watson & Co., \$250 (accepted).
Housselman & Co., \$1,230.

HANNAH, Mo., — The following is a synopsis of the bids received for stone and brick work on the basement and superstructure of the court-house and post-office.
Smith & Sargent, sand stone, \$21,333; brick, \$11,414.
W. H. & W. Haven, stone, \$21,000; brick, \$10,150.
Larkworth & Menke, stone, \$23,100; brick, \$9,775 (accepted).
James M. Marshall, stone, \$42,500; brick, \$12,450.

PROPOSALS.

JOINER'S WORK AND WOOD-FLOORING. [At Memphis, Tenn.]
OFFICE OF SUPERVISING ARCHITECT,
TREASURY DEPARTMENT,
WASHINGTON, D. C., August 26, 1884.

Sealed proposals will be received at this office until 2 P. M., on the 23d day of September, 1884, for furnishing and doing in place complete all the joiner's work and wood-flooring required for the custom-house and post-office building at Memphis, Tenn., in accordance with drawings and specification, copies of which may be seen, and any additional information obtained on application at this office, or the office of the superintendent.

Bids must be accompanied by a certified check, and those received after the time of opening will not be considered.
M. E. BELL,
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Superintending Architect.

STONE AND BRICKWORK. [At Syracuse, N. Y.]
OFFICE OF SUPERVISING ARCHITECT,
TREASURY DEPARTMENT,
WASHINGTON, D. C., August 23, 1884.

Sealed proposals will be received at this office until 2 P. M., on the 10th day of September, 1884, for furnishing and doing all the stone-work and brick-work required for the superstructure of the post-office etc., at Syracuse, N. Y., in accordance with drawings and specification, copies of which can be seen, and any additional information obtained on application at this office or the office of the local superintendent.

Bids must be accompanied by a certified check, and those received after the time of opening will not be considered.
M. E. BELL,
456
Superintending Architect.

September 6, 1884
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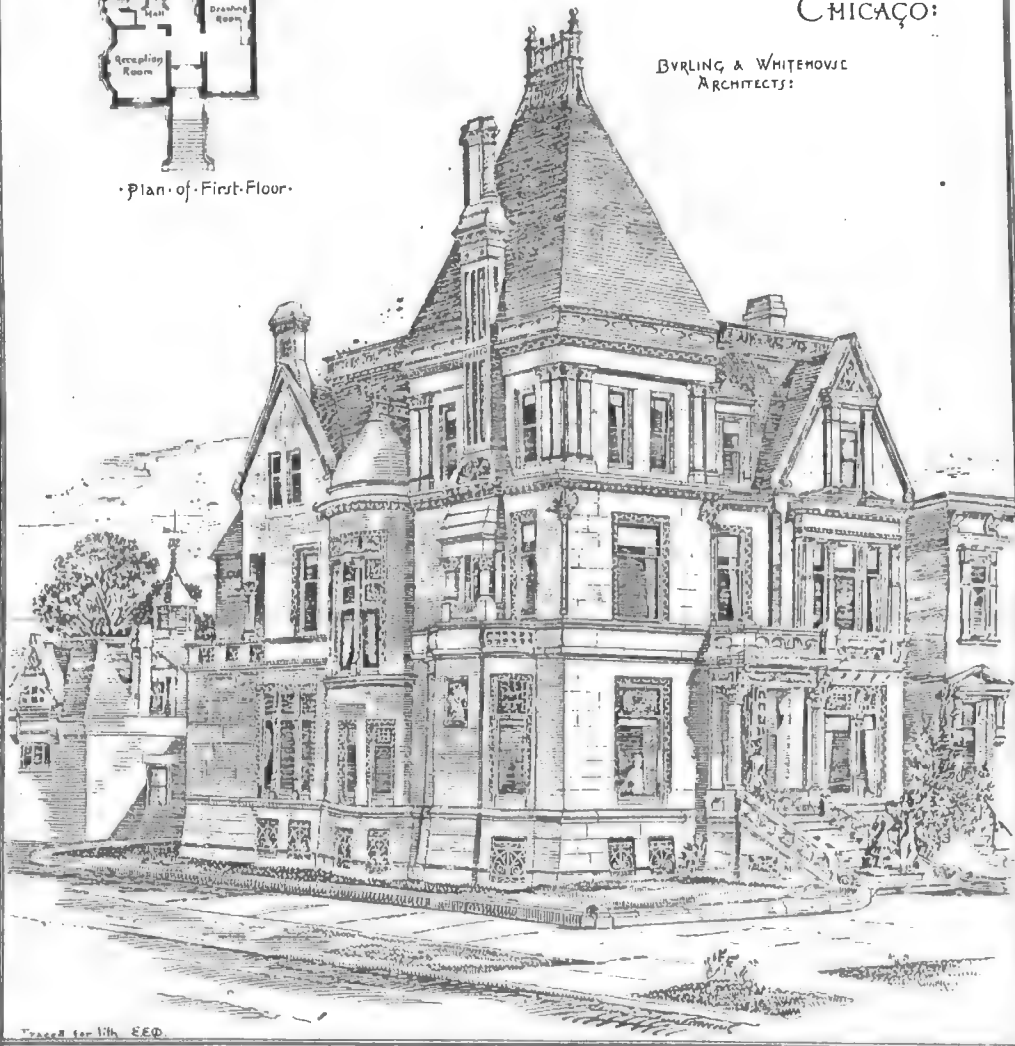
Box 120-121



Plan of First Floor.

RESIDENCE OF -
C. T. YERKS, ESQ.
MICHIGAN AVE.
CHICAGO:

BYRLING & WHITEHOUSE
ARCHITECTS:



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BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

(Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.)

BUILDING PATENTS.

(Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.)

- 304,201. PAINT-PAIL. — James T. Brien, Hoozick Falls, N. Y.
- 304,202. DOOR FOR ELEVATOR-WELLS. — N. Porter Cleaves, Boston, Mass.
- 304,203. COMBINED FIRE-PROOF ELEVATOR AND VENTILATING-SHAFT. — Charles Carroll Gilman, Eldora, Iowa.
- 304,204. HYDRAULIC COOK. — Albert Hallowell, Lowell, Mass.
- 304,205. VAULT AND SEWER GRATING. — Jas. T. McHugh, Pittsburgh, Pa.
- 304,206. PAIN-CAN. — Edwin Norton, Chicago, Ill.
- 304,207. WATER-CLOSET AND TRAP. — John A. O'Brien, New York, N. Y.
- 304,208. SCAFFOLD-SUPPORT. — E. Bascom Powell and Richard York, Slater, Mo.
- 304,209. METHOD FOR DRAIN, SOIL AND WASTE PIPES. — Jas. J. Wade, Chicago, Ill.
- 304,210. SPRING-RING. — Geo. W. Warner, Freeport, Ill.
- 304,211. AUTOMATIC HATCH-CLOSER. — Warren Warner, Cincinnati, O.
- 304,212. SAW-HANDLE. — John D. Abbott, Reading, Mich.
- 304,213. VENERING WOOD, ETC. — Geo. O. Boynton, Boston, Mass.
- 304,214. PAINTING COMPOSITION. — Seymour H. Dickinson and James Allen, Middlebury, Ind.
- 304,215. EAVES-TROUGH HANGER. — Warren H. Gould, Manchester, N. H.
- 304,216. FIRE-EXTINGUISHER. — Jas. Edwin, Fulton, Mo.
- 304,217. SHINGLE-MACHINE. — Charles Augustus Terragon, Portland, Oreg.
- 304,218. FAUCET. — Arthur Allwood, Fall River, Mass.
- 304,219. MANUFACTURE OF WALL-PAPER. — Geo. K. Dirge, Buffalo, N. Y.
- 304,220. MAY-HOLE VAULT-COVER. — Charles E. Emory, Brooklyn, N. Y.
- 304,221. BIT-BRACK. — John S. Fray, Bridgeport, Conn.
- 304,222. DRAWING-INSTRUMENT FOR SECTION-LINING. — Jos. Gardum, Brooklyn, N. Y.
- 304,223. PORTABLE HOUSE. — Earl Leo, Corona, N. Y.
- 304,224. METHOD OF SEATING AUDITORIUMS. — Leon H. Lempert, Rochester, N. Y.
- 304,225. HATCHET-WRENCH. — Darwin V. Miller, Weedsport, N. Y.
- 304,226. OPERATING STORM-DOORS. — George H. Newell, Woodville, N. H.
- 304,227. FL-ORING, WAINSCOTING, ETC. — Henry Clay Toms, Baltimore, Md.
- 304,228. FIRE-ESCAPE. — John Batten, Detroit, Mich.
- 304,229. COMBINED SQUARE, LEVEL AND TRIANGLE. — F. W. Gurney Boutecher, Milwaukee, Wis.
- 304,230. FIRE-ESCAPE. — Samuel Bots, Birmingham, County of Warwick, England.
- 304,231. BUILDER FOR HEAVY BUILDINGS. — William H. Hyman, New York, N. Y.
- 304,232. FIRE-COUPING. — John Willem Call, Little Rock, Ark.
- 304,233. ROOFING-COMPOSITION. — Wm. H. Camp, Petersburg, Va.
- 304,234. POINT OR STRAINER FOR DRIVE-WELLS. — August D. Cook, Lawrenceburg, Ind.
- 304,235. FIRE-ESCAPE. — William Fields Cullen, Loganport, Ind.
- 304,236. LEVEL. — Richard I. Framboe, Bakersville, N. C.
- 304,237. CONNECTION BETWEEN BASINS AND SEWER. — Chas. I. Kins, New York, N. Y.
- 304,238. SHEET FOR WORKING. — Robert E. Masters and Lawrence J. Kimball, Sacramento, Cal.
- 304,239. HOPE-AND-FORKS. — Dwight S. Richardson, Brooklyn, N. Y.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report thirty-one permits have been granted, the more important of which are the following:—
Henry Westphal, 2 two-story brick buildings, e s Gould Lane, s of Barney St.
A. L. Black, 3 three-story brick buildings, s s Chase St., between Concord and Barclay Sts.
Norton & Hro., 2 two-story brick buildings, e s Hamburg St., between Charles and Hanover Sts.
Johna Regester, 2 two-story brick buildings, e s Alapath St., s of Townsend St.
Andrew Wirth, three-story brick building, n w cor. Pennsylvania Ave and Picher St.
Chas. Hantz, 6 two-story brick buildings, s s Holbrook St., between Hoffman and Preston Sts.
Edwin Sinton, three-story brick building (square), w s Park Ave, n of Richmond St.
J. H. Frimby, 11 two-story brick buildings, w s Woodley Alley, n of Laval St.
A. S. & F. H. Hinds, 2 three-story brick buildings, e s Chase St., s of Valley St.

Boston.

BUILDING PERMITS.—Washington St., No. 3114, Ward 23, for Chas. Carless, store-house, 10' x 20', flat, Chas. Carless, builder.
Dorchester Ave., near Dorchester St., Ward 16, for Patrick Campbell, 2 stables, 21' x 28' flat; Delano & Carless, builder.
East Fourth St., No. 591, Ward 14, for Lyman Locke, 2 dwellings, 24' x 23', flat; Lyman Locke, builder.
South St., near Poplar St., Ward 21, for Henry A. Wood, stable, 22' x 35', pitch; Henry A. Wood, builder.
Unnamed Pl., s s School St., Ward 23, for M. Murphy, 2 dwellings, 12' 6" x 12' and 12' x 18', pitch; J. W. Berry, builder.
Crescent Ave., near Newport St., Ward 24, for P. P. Holbrook, dwell., 12' x 11' and 33' x 41', pitch; E. Downing, builder.
Athens St., No. 352, Ward 14, for Milton & Groves, stable, 22' x 22', upward; E. Downing, builder.
Summer St., No. 222, Ward 2, for D. V. Foltz, dwell. and store, 17' 6" x 36', flat; A. J. McLavin, builder.
Poplar St., s s, w of Hillboro St., Ward 23, for A. Rogers, dwell., 7' x 18' and 20' x 28', pitch; A. Rogers, builder.
Burnside Lane, w s, Ward 22, 2 dwellings, 18' x 40', flat; McDonald & Tobin, builders.
Manroe St., No. 75, Ward 21, for J. W. Dandun, dwell., 21' x 24' and 24' x 35', pitch; Thos. Clune, builder.
Porter St., near Boylston Ave., Ward 23, for Chas. Payder, dwell., 22' x 38', flat; H. Teller, builder.
E St., near West First St., Ward 13, for Boston Cooperage Co., sheds, 37' x 40', flat; Boston Cooperage Co., builder.
Burnside Lane, w s, Ward 22, 2 dwellings, 18' x 40', flat; McDonald & Tobin, builders.
Ashford St., n s, East Linden St., Ward 23, for Larkin Dutton, 3 dwellings, 10' x 43', pitch; McDonald & Tobin, builders.
Duckett St., n s, w Clayton St., Ward 24, for W. C. B. Fitch, 3 dwellings, 23' 6" x 37', pitch; Jas. Bacon, builder.

Brooklyn.

BUILDING PERMITS.—Columbia Heights, e s, 75' n Orange St., five-story brown-stone apartment-house, 100' long; cost, about \$23,000; owner, James Lane, 103 Columbia Heights; architect, Samuel Caries; builder, not selected.
Kosciusko Pl., s s, 100' e Broadway, 3 three-story brick tenements, the roofs, wooden cornices; cost, each, \$5,000; owner and architect, Ferdinand Wiegand, Kosciusko Pl.; builders, Ernst Leorch and John Kueger.
Middletown St., s s, 200' w Harrison Ave., one and two-story brick engine and boiler room, gravel roof; cost, \$3,000; owners, E. Greenwald's Sons & Co., Middletown St., between Marcy and Harrison Aves.; architect, E. F. Taylor; builders, Matthew Smith and H. B. Ferguson.
Herkimer St., n s, 180' w Hopkinson Ave., two-story frame store and tenement, tin roof; cost, \$1,800; owner, H. Von Morawke, 214 Atlantic Ave.; architect, M. Wachs; builders, Peter & Foreman.
Harrison Ave., s s, 70' n Middletown St., three-story frame (brick-filled) store and tenement, tin roof; cost, \$1,200; owner, Jacob Bossert, 233 Lynch St.; architect, John Hinder; builder, Jacob Kautz.
Van Cott Ave., n s, 80' w Russell St., three-story frame tenement, tin roof; cost, \$3,000; owner, Owen Donnelly, 102 North Third St.; architect, E. F. Taylor; mason, Nath. Smith; carpenter, not selected.
Tenth St., n s, 110' w w Fifth Ave., 11 two-story brick dwellings, tin roof; cost, each, \$3,500; owner, Frank H. Bush, 233 Fourteenth St.; architect, A. V. B. Hush.
Pacific St., s s, 80' e Albany Ave.; also, Dean St., n s, 80' e Albany Ave., 22 (11 on each street) four-story frame (brick-filled) dwellings, gravel roofs; cost, each, \$1,000; owner, Samuel Hilliard, cor. One Hundred and Fifty-eighth and East Most Ave., New York; architect, R. M. Veitch.
Prospect Ave., s s, 100' w Seventh Ave., 3 two-story frame dwellings, tin roofs; cost, each, \$2,000; owners, architects and builders, Grogan & Baulch, 107 Prospect Ave. and 234 Eleventh St.
Linden St., n s, 100' e Wyckoff Ave., 4 two-story frame dwellings, tin roofs; cost, each, \$1,200; owner, Thomas Mullen, 118 Graham St.; architects, J. A. Hanley and Mr. Kauer.
Columbia Heights, e s, 280' s Clark St., two-story brick stable and dwell., asphalt and gravel roof; cost, \$2,000; owner, S. V. White, 210 Columbia Heights; builders, Burns & McLean and Bogart Bros.
Noble St., No. 123, four-story brown-stone dwell., gravel roof; cost, \$2,500; owner, Chas. H. Reynolds, 111 Noble St.; architect, F. Wabber; builder, J. B. Woodruff.
ALTACTIONS. — Broadway, No. 281, and two stories, tin roof; cost, \$1,000; owner, W. F. Quale; architect, R. Thomas.
Wythe Ave., No. 58, and two stories; cost, \$3,000; owner, P. Comerford, 67 Rodney St.; builder, Chas. Collins.

Chicago.

BUILDING PERMITS.—L. Strube, two-story dwell., 360 Henry St.; cost, \$3,200; architect, A. Bessler; builder, H. Hilderman.
S. Strube, two-story store and dwell., 3127 South Halsted St.; cost, \$6,000; architects, Farst & Rudolph; builder, W. Zscholoff.
J. A. Oliver, two-story dwell., 1200 West Monroe St.; cost, \$1,000; architect, H. H. Wilson; builder, Lehman.
M. Kuesell, two-story dwell., 3518 Prairie Ave.; cost, \$3,500.
H. Waterman, two-story dwell., 3132 Fifth Ave.; cost, \$3,000.
J. Knert, three-story dwell., 423 Oak St.; cost, \$6,000; architect, W. Thomas; builder, D. H. Hays.
P. McNichols, two-story flats, 281 Loomis St.; cost, \$3,000.

A. Rehwenkel, two-story dwell., 484 Morgan St.; cost, \$3,500; architect, F. W. Kuehl; builder, P. J. Reister.
D. D. Evans, two-story dwell., Cleary St.; cost, \$3,000.
L. Pilkington, two-story dwell., 22 Campbell Park Ave.; cost, \$2,500.
E. Kaehler, three-story store and flats, 100-102 North Ave.; cost, \$6,000; architect, O. H. Cottig; builder, G. Wolff.
C. Busch, two-story dwell., 2945 South Park Ave.; cost, \$5,000; architect, J. Frank; builder, W. Maron.
H. Gantzer, three-story shop, 151-157 North May St.; cost, \$1,000; architect, L. Berg; builders, T. Tubbson & Co.
Estate of B. Heeney, three-story flats, 15 Aberdeen St.; cost, \$6,000; architect, J. J. Flannery; builder, J. J. Hiner.
W. Mueller, two-story flats, 689 Dixon St.; cost, \$2,700.
F. Vileta, two-story dwell., 649 West Eighteenth St.; cost, \$3,000.
Stafford & Murphy, two-story livery stable, 172-176 Wells St.; cost, \$20,000; architect, Spoyer; builders, J. M. Dimpsey & Co.
J. C. rk, 2 two-story flats, 375-377 Marshfield Ave.; cost, \$700; architect, J. Hesley; builder, F. Heppes.
H. S. ker, two-story dwell., 160 Napoleon Pl.; cost, \$2,700.
C. Seefust, two-story dwell., 15 Crittenden St.; cost, \$2,500.
Mrs. L. Roessler, two-story flats, 496 West North Ave.; cost, \$3,500.
C. H. Blair, three-story dwell., 1911 Indiana Ave.; cost, \$12,000; architect, E. Bauman; builder, J. Griffin.
C. H. Blair, three-story dwell., 2815 Michigan Ave.; cost, \$13,000.
Geo. Deppish, three-story flats, 131-133 Libbey St.; cost, \$21,000; architect and builder, Geo. Deppish.
H. Stevens, three-story store and flats, 1161 Milwaukee Ave.; cost, \$1,500.
D. Foley, two-story dwell., 477 South Wood St.; cost, \$2,500.
P. O'Donnell, three-story store and flats, 689 West Van Buren St.; cost, \$7,000; architect, Wilson; builders, Murphy & Wakeman.
City of Chicago, two-story engine-house, 531 South Halsted St.; cost, \$10,000.
City of Chicago, two-story engine-house, 19 South St.; cost, \$10,000.
S. Ostley, two-story dwell., 105 Evergreen Ave.; cost, \$3,000.
C. Lusk, two-story dwell., 109 Evergreen Ave.; cost, \$3,000.
J. W. McElenias, two-story dwell., 1911 Indiana Ave.; cost, \$9,000; architect, F. L. Charnley; builder, J. Griffin.
O. Wagner, two-story store and dwell., 652 West Twenty-first St.; cost, \$4,500.
Mary H. Hyde, three-story store and flats, 616 Ogden Ave.; cost, \$4,000.
Church of the Assumption church, Illinois St.; cost, \$20,000; architect, C. A. Alexander; builders, C. H. Dimpsey & Co.
P. C. Hinton, two-story store, 2010 Calumet Ave.; cost, \$3,500.
N. Bertel, three-story store and flats, 184 Dekoven St.; cost, \$1,000.
T. Rice, 3 three-story dwellings, 125-137 Sedgwick St.; cost, \$4,000; architect, A. Ludwig.

Cincinnati.

BUILDING PERMITS.—J. O. Guenther, addition 148 Wade St.; cost, \$2,000.
J. H. Luskien, three-story frame dwell., Third St., between Colman and Whitehall Sts.; cost, \$2,700.
Wm. Bush, two-story brick dwell., n e cor. Farradome and Parallel Sts.; cost, \$5,000.
Busch, Klax & Schmidt, two-and-one-half-story brick dwell., Nixon St., near Carthage Pike; cost, \$3,500.
A. Wison, three-story brick dwell., n s of Blackford St., bet. Hammet and Dalton Aves.; cost, \$2,100.
India Kussner, two-story brick dwell., Walnut Hills; cost, \$2,000.
Mike Metz, two-and-one-half-story brick dwell., s of Curry St.; cost, \$3,000.
Fred Shultz, two-and-one-half-story brick dwell., s of Holtz St., w of Euclid Ave.; cost, \$2,800.
Wm. Neubauer, two-and-one-half-story brick dwell., s s of Mohr St., w of Euclid Ave.; cost, \$2,850.
J. Mosler, two-and-one-half-story brick dwell., s s of Mohr St., w of Euclid Ave.; cost, \$2,850.
Barbara Smith, two-story frame dwell., n s of Ford Ave.; cost, \$2,000.
J. Lohmann, two-story brick dwell., e s of Centre St. and Second Ave.; cost, \$3,000.
Jacob Kinsbaur, three-story brick dwell., Marshall Ave. and Canal Colarain Pike; cost, \$1,500.
F. Hutter, three-story brick dwell., w s of Colarain Pike, bet. Straight and Addison Sts.; cost, \$5,000.
H. Hattersley, two-and-one-half-story frame dwell., w s of Kenton St.; cost, \$2,300.
Additions and repairs; cost, \$9,350.
Total cost, \$94,000.

New York.

STRIKES.—The bricklayers strike drags along a weary existence, men and bosses both from time to time claiming the advantage. Some men are working nine hours, some ten; but one thing is unfortunately definitely settled, that being that a large amount of proposed business has been abandoned.
STORIES.—At Nos. 41 and 53 Maiden Lane, 2 brick store buildings, with frontages of about 21' each, are to be built for Mr. Chas. Knapp, from designs of Messrs. T. De Lemos and A. W. Corlies.
APARTMENT-HOUSES.—On Fifty-third and Fifty-fourth Sts., near Second Ave., 2 apartment-houses, 19' x 74' and 22' x 77', respectively, are to be built at a cost of \$45,000, for Messrs. Koris & Spies; from designs of Messrs. H. & J. Jarhus.
BUILDING PERMITS.—East seventy-sixth St., Nos. 400-412, two-story brick stable, tin roof; cost, \$—; owner, Herman Harjes, 400 East seventy-sixth St.
Thirty-third St., s s, 200' e First Ave., six-story brick warehouse, tin roof; cost, \$5,500; owner, Fred. O. Lunde, 164 Ross St., Brooklyn; architects,

of the pipes. With hot water you can have your pipes heated to anything you like, from 50° to 180°; but with steam-pipes it is different. The heat is got up very rapidly when the steam is turned on, and goes off very rapidly when turned off. There are various arrangements for regulating steam heating when applied to warm inflowing air. In the New York Hospital the incoming air is warmed by coils of steam-pipes, and generally to a considerable temperature; but in order to prevent the warmed air entering the wards at too high a temperature, this hot air is passed into a mixing-chamber, to which cold air can be admitted at will, so that the hot air can be mixed with cold air to the extent necessary to moderate its temperature before it is allowed to flow into the wards. There is, however, one great advantage possessed by coils of steam-heated pipes: they give out a larger proportion of radiant heat to the walls than is given by hot-water pipes. You can easily understand how much simpler it would be to warm Mr. Pritchett's dados and wall-panelling by steam-pipes carried through them instead of by hot water.

The next way in which heat can be applied is by means of gas. A gas-jet warms any surface in contact with it. If, therefore, you enclose a gas-jet in a metal case, and if you bring air to feed the gas-burner from the outer air, and carry away the products of combustion also to the outer air, you can use the heat of the metal case to warm the surrounding air in the room, whilst the fumes of combustion from the gas will be taken outside and do no harm to the air of the room. Gas-jets might thus be applied with the greatest ease to warm Mr. Pritchett's dados and wall-panels, the gas-jets being placed inside the dado, and the products of combustion carried to the outer air. Mr. Boyle has invented a very efficient method of applying gas to warm inflowing air at an ordinary ventilator; it is in use at the Guildhall. The fresh-air inlet has placed in it a pipe which is coiled round. A gas-burner is placed at the bottom of the pipe, separate from the air of the room; the products of combustion pass up the coiled pipe and then down and out to the open air, the pipe being warmed by the heat they give out in their passage, and the fresh inflowing air being warmed by the pipe. Of course, in all these arrangements air must be extracted by flues or fans or some other method, so as to insure a due circulation of air. But however advantageous gas may be in the methods of its application to warming, and I do not hesitate to say that it can be easily applied so as to be hygienically perfect in that respect, you can, moreover, apply your heat at the exact point at which you want it. You can so arrange it as to give out a low degree of heat for warming fresh inflowing air, or to give out heat to warm your dados and prevent your own body losing its natural heat too rapidly by radiation; or you can use it to give out a high degree of heat, and thus to furnish radiant heat to warm you by direct radiation. It has only to be carefully adjusted to produce all these advantages, yet there is this enormous drawback to its use: at the price of 3s. 6d. a thousand cubic feet, it would cost to effect these things about four times the price of coal. I believe that if it could be supplied so as not to exceed double the price of coal, it might be economical to use it, because you can use it when and where you desire it. You can turn it off when you leave your room, and turn it on again when you return, and in this climate, where our changes of temperature in winter are so rapid, a uniform heat applied everywhere often becomes oppressive.

Let us consider for a few minutes what is the meaning of revolutionizing the methods of warming our houses in the way I now propose. We should not load our atmosphere with soot. Each of the fires in a house requires its separate chimney, and as if the householder were determined to do all in his power to make the atmosphere impure, smoke which is arrested in the chimney-flue in the form of soot is periodically pushed up out at the top of the chimney into the air, not only to the detriment of the occupier of the house, but to that of the neighbors—an arrangement which may be witnessed any morning in houses where chimneys are being swept. These inconveniences result from having separate fires in every house, and for each separate object. Let us consider for a moment the amount of labor and expense entailed by the mere supply of fuel upon this separate system. Take, as an example, one house of moderate size. The consumption of coal at a low calculation will be twenty-four tons a year, which would require twelve carts to convey it to the houses; or a street such as Eaton Place would require twelve thousand carts to supply it with coal. These carts entail the presence of between two thousand and three thousand horses, and each horse causes, by the manure it deposits in the street, an additional pollution of our atmosphere. When the coal is placed in the house, these twenty-four tons require to be carried up in coal-scuttles, each holding probably a quarter of a hundredweight. That is to say, that there would be to be carried from the cellar to various parts of the house nearly two thousand coal-scuttles full of coal. The residue would have to be carried down again in the shape of ashes, probably to the extent of four hundred coal-scuttles, independently of the proportion of ashes which get scattered from the fireplace about the room, and have to be cleaned up by the housemaid. In addition to this, the dirt engendered by the smoke and soot sent up into the atmosphere renders much additional cleaning necessary, and entails on the inhabitants of London a vast expenditure on soap, and on repainting and redecorating our rooms. Indeed, the late Miss Garrett, who was celebrated for her skill and taste as a decorator of houses, told me she had no sympathy with the movement for the abatement of smoke, because she looked upon smoke and fog as specially sent by Providence for the benefit of decorators. The labor thus entailed is wasted force.

It entails vast unnecessary labor and waste of fuel. Probably, if the price of coal had remained high, as in 1875-6, we should ere now have begun to warm our houses in a more rational way. But it is not on the ground of economy that I advocate a change; it is on the ground of purity of air. So long as we pollute the air with soot, not only is the outside air impure, but the air is so loaded with dirt that the careful householder excludes it from his rooms where possible. You would all be ashamed to supply your guests at a party with bad water; if you were equally ashamed, which you ought to be, to supply them with bad air, we should soon take measures to build our houses so as to keep up a continual flow of fresh air throughout our rooms. And then we should be rapidly compelled to take measures also for warming our houses in a way which would not pollute our atmosphere.

THE CINCINNATI COURT-HOUSE COLUMNS.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Gentlemen,—Your editorial in reference to the proposed erection in Eden Park, on the Museum grounds, of the six Corinthian columns with their pedestals and entablature, taken from the ruins of the court-house, does some injustice to the movement set on foot for their preservation, and, in view of all the facts, a true statement of the case is perhaps warranted.

The idea is not to erect a ruin, nor so much to preserve a memento and reminder of our late unpleasantness, as it is to preserve these columns as fine examples of Corinthian columns,—capital, base, entablature. They are the only examples of the kind in the city, except at the old Post-Office, which is to be torn down inside of three years, thus leaving us poverty-stricken for this kind of architectural material and example. It is stated that there is not even a first-class plaster cast of such a column. Now it is proposed to take these fellows and put them up in the open air, where they can stand out in bold relief against the sky, and be stared at and sketched and measured by all future (and present, for that matter) students of architecture. And where's the harm? Nobody need believe that they are a ruin, if they don't want to. You don't have to believe even that they are ever-mindful monuments of the late riot, telling of the inability of the officers of the law to take care of its property and of executing the law. No; they are to be put upon the ground (they don't go into the building, because they are too big) simply and purely as examples and models of Corinthian columns, and must be respected accordingly. Moreover, they are to be put up without expense to the County, Art Museum, or any other public fund, but the cost is to be borne by private subscription.

Now don't you think it would be better to thus preserve them than to consign them to the scrap-heap of some unappreciative stone-yard, where, after the dust of ages has buried them from the sight of men, they might possibly be resurrected, and perhaps cause future nations to expend large sums of money in digging for the ruins of a temple that they are led to suppose existed on the site, because of these bothersome columns? No; let us get rid of them by putting them up in the open air, where they speak out for what they are.

ARCHITECTURAL COMPETITIONS.

CHICAGO, September 10, 1884.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—In reading the communications of the Architectural Association of Des Moines, Iowa, in several recent issues of the *American Architect*, one is led to ask: Have we an architectural "Salvation Army" here in the West? What, precisely, they are driving at I am at a loss to make out from the sophomoric effusions above alluded to; but I presume they hope to reform the present system of competition in the West. Vain hope! The rush and striving for commissions on the one hand, and the desire to get something for nothing on the other, will be found in practice to override all considerations of professional honor ("do unto others as you would have others do unto you"), and end in the utter ignoring by the public of the position and rights of the architectural profession. This apathy or want of appreciation on the part of the public is probably due somewhat to the "methods" pursued by the architects themselves to get business. (I am speaking of the West.) No sooner is it announced that an important structure is about to be erected, than plans innumerable are thrust, unsolicited, under the noses of the proprietor or the committee, until at last, bored almost to death, the proprietor or the committee exclaims, "a plague o' both our houses!"

A few months since, a curiosity in the shape of an advertisement appeared in a Chicago daily, headed, in large letters, "Free Architecting; for particulars, address —, Des Moines, Iowa." Wishing to know how money could be made by "free architecting," I wrote to the advertiser for "particulars," and received by return mail his explanation and his business card. He was one of a numerous fraternity here in the West, an "architect and builder," and "whenever he could get a job of building by doing so, he put in the architecting free!" I forwarded the correspondence to the Architectural Association of Des Moines, and hope they have manfully wrestled with the subject.

In refreshing contrast to all the above, I am happy to report the recent action of the Union League Club of Chicago, who are about to erect a new club-house. A building-committee, consisting, I believe, of three members, was appointed by the club to "employ an architect

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and build a club-house." The committee looked over the list of members and found the names of nine architects thereon! Was ever club so blessed with architectural talent? But no! *embarras de richesse!* What to do with it all? was the question. Should a competition be called confined to these nine architectural members of the club—waste four weeks in preparation of plans, and six weeks in a club wrangle over them, only to have, perhaps, the worst of the lot adopted, because its author was a "good fellow," an adept at electioneering, and polled the largest number of votes? And could they ignore the extra (?) claim of one architectural brother who thought he was going to the root of the matter by subscribing to the stock of the club?

And now comes the refreshing part of the whole business. Requiring the services of only one architect to build the building, the committee have appointed, *without competition*, Mr. W. L. B. Jenney, an architect of fine taste and much experience, and the writer congratulates them on the appointment, and believes they will have no reason to regret it. X.

GLAZING SASH-DOORS.

ELMIRA, N. Y.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—Please decide in next issue which is the proper way to hang a sash-door or door with glass, putty inside or outside.

Yours, etc.,

FRED FULLER.

[The putty should be outside. If the reverse should be tried, water would find its way between the glass and the horizontal muntins, would then in cold weather freeze and throw off the putty. Besides, the ordinary way of glazing windows and doors secures the best effect for the interior.—EDS. AMERICAN ARCHITECT.]

PAYING FOR UNUSED DRAWINGS.

CLEVELAND, O., September 4, 1884.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—Will you please answer, through the columns of your valuable paper, the following questions:—

Where an architect prepares drawings and specifications for a building under the direction of his client, the drawings are submitted to contractors for estimates, and bids for the work received; then the client changes his mind respecting the work, orders the drawings laid aside, and orders the architect to make another set of drawings and specifications, which are submitted to contractors, bids received, and the building erected. Now, is the architect entitled to receive pay for the first set of drawings and the expense of receiving bids, etc.? And if so, what per cent on the lowest bid received would he be entitled to? Please answer and oblige

Yours truly,

A. D.

[The customary charge in such cases is two and one-half per cent on the estimated cost. If the detail drawings have been prepared, the charge is three and one-half per cent. This is for buildings costing more than ten thousand dollars; for those of less cost the percentage would be higher, but in the same proportion to the charge for full service.—EDS. AMERICAN ARCHITECT.]

NOTES AND CLIPPINGS.

St. MICHAEL'S, COVENTRY.—For the proposed restoration of St. Michael's Church at Coventry—the second largest parish church in England—the sum of \$175,000 is required, and the sum of \$130,000 has already been raised. The subscribers include Jews, Roman Catholics, Churchmen, Dissenters and Agnostics.—*Exchange.*

NEW METHOD OF TREE FELLING.—The London *Lumber Trade Journal* states that a new method of tree-felling by dynamite has been successfully introduced. A cartridge of the explosive substance is placed in a channel bored directly under the tree to be operated upon, and when exploded the tree is simply forced up bodily and falls intact on its side. If this system works as well as it is represented to do, and the tree is not fractured by the force of the explosion, a large proportion of valuable wood at the base of the trunk can be utilized which is now lost. For clearing forest properties to convert into arable land, this method appears admirably adapted, as it brings up the roots of the tree at the one operation, and dispenses with the tedious and costly process of grubbing the roots of the felled timber.

DISCOVERIES AT ZAPATERA, YUCATAN.—Mr. H. Meyer, the archaeologist, writes to the *New York Evening Post* from Nicaragua: "I have in my archaeological excavations on the Island of Zapatera, made a rather interesting discovery. About 42 feet under the surface of an ancient cemetery (4 feet vegetable soil, 15 feet volcanic ashes, 7 feet vegetable soil, 16 feet volcanic ashes) I discovered a rock which, judging from the figures it contains, has served in remote times for astronomical observations. On this rock I have found two stone tablets, one of which contains a representation of the world; part of Africa and Asia united, Europe and this continent; a large continent is situated in the Atlantic Ocean, which I consider to be the mythical lost Atlantis, mentioned in some of the ancient authors. The other tablet contains inscriptions, of which part is undoubtedly Phœnician. Owing to the rainy season I have for the present suspended work on Zapatera, and am engaged on the Island of Ometepe, where it is possible to excavate on account of the soil. . . . The volcano of Ometepe, which opened last year, is continually working; its thunder and roaring is sometimes frightful; yet part of the people who last year left the island, have returned to their houses."

BRUGES AND ANTWERP.—I suppose that there is hardly another town in Belgium that is to-day as poor as this once thriving Town of Bruges; one-third of her population, of less than 60,000 souls, are paupers; her waterways are stagnant, choked with weeds, and unweeded with the keels of commerce; there is no sound of heavily-laden drays in her streets, and the old buildings which stand knee-deep in her canals are overgrown with moss, and slowly decaying, without hearing the sound of hammer and saw in structures that should replace them. The oldest parts of the town seem to have changed very little, or not at all, since the Counts of Flanders, whose effigies adorn the walls of the Hôtel de Ville, held away under the careful watch of the people, and you do not feel that you have taken any step at all into the past in going from the streets into the Hospital of St. John, where the beautiful works of Memling are preserved. It does not affect you at all to know that he painted these pictures for this very building before the fifteenth century had reached its end, and you would not be surprised if the attendant who exhibits his works should offer to take you to the painter's studio and show him engaged in his labor. I do not know that I can give any one who reads these lines a hint of the peculiar, antique charm of Bruges; I feel it very keenly, even in my remembrance of the place, but understand that it is as difficult to describe as the smell of a flower, or the taste of a fruit would be; as I can only say that if the reader does not comprehend from what I have written what it is that makes Bruges such a delightful old place to visit, he must go to the town and feel for himself what I am sure all must feel who have made trial of it. No American can come to Belgium, without thinking of Longfellow's beautiful lines upon it, although he will search vainly now for the little inn at which the poet stayed at the time of his visit. The chimneys are beautiful, and one listens with pleasure to the sound of their ringing by day and night, but they are not to be mentioned in the same hour with those in the cathedral at Antwerp, which I am sure make the finest bell music that can be heard in all the world. There are ninety-nine bells in the gracefully-soaring tower, which ring with every quarter hour, and at the hour itself fling five minutes of exquisite melody over the listening waters of the Scheldt. Compared with them the chimneys of Bruges are harsh and noisy, for they seem to have mellowed and hushed themselves with time, until now they have acquired an indescribable beauty and solemnity of sound. You hear them best at night, when the noise of the town is hushed and the people are asleep, and I used often to go out in the darkness from my hotel near by and stand near the tower and listen to their weird and fascinating music, which seemed to come from the sky. If you will but think of all other music as material, you will understand me when I say that these bells seem to utter the spirit of sweet sound.—*Correspondence Boston Advertiser.*

A LONG PNEUMATIC TUBE.—The *New York Graphic* gives the following details concerning the proposed pneumatic tube for carrying letters and small packages from Chicago to New York. The idea at first seems impracticable, but on examination it turns out to be feasible. Two tubes are to be made of brass, which will run side by side, although it is said, one tube will be tried at first. A powerful engine with an exhaust-wheel is to be stationed at one end. It is said that if the tube is properly made and planted no air will escape. The right of way, it is believed, can be secured for nothing, or at a nominal expense, and the main cost will be the tube and the engines and stations. A letter, a sample of grain, or package of any kind which is to be sent, is inclosed in a leather ball. A ball presents the least friction as a rolling object, and the leather is to be stiff and heavy. A continuous current of air is passing through the tube constantly. With one pipe the plan is to reverse the engine every hour—the first hour forcing air into it at the Chicago end, and sending packages to New York, the next hour exhausting the air at Chicago and drawing the packages as quickly back. The men who have it in charge do not say how long it will take to send a package this way, but claim to send it in less than a minute. Stations will be established at the important cities on the route. It is expected to pay a large profit, and to do the business of the telegraph companies, express companies and the mail. They say the scheme of sending crude petroleum by a pipe for long distances, as is now done, was laughed at first, and that this one is more practicable, if possible, and not nearly so costly, as the pipes are to be small, and can go around curves and over hill as well as on a level.

PAINTING TIN ROOFS.—Tin on a house-top should be well painted once in four years. For roofs, light, cool colors are preferable, because they reflect the warm rays of light, and thereby lessen the expansion and contraction of the metal and the shrinking of the boards underneath, and so lessen the liability of the tin to crack in the seams. The temperature of attic rooms in summer will be materially lower if the roof be painted with a light rather than with a dark color. The writer has learned from long experience that the finest French ochre is the most economical pigment that can be used for that purpose. If, as is sometimes the case in country houses, where the roof is a conspicuous object in the architecture of the building, a dark color be indispensable, the use of pure Venetian red darkened with lamp-black, is recommended as the most durable and economical. If, by some process the oil used in roof-painting could be prevented from becoming hard and brittle, it would be a great gain. The poorest oil-paint, however, is better than neglect; and the best economy consists in keeping tin entirely and thoroughly protected from the corroding influence of dampness. Old paint, which has become "fatty" from exposure to the atmosphere, is better than new for roof painting. Not a drop of turpentine should be used for such work.—*The Metal Worker.*

YELLOW POPLAR.—A correspondent writing to the *Northwestern Lumberman* from Clinton, Tenn., says: "While the white-pine manufacturers do not know what to do with all their lumber, we yellow-poplar manufacturers do not know how to manage to supply the steadily increasing demand. Two years ago we could hardly get \$10 for Nos. 1 and 2 here, on cars, for the Boston and New York markets, but to-day, with not ten car-loads of good poplar lumber in four mill-yards, we are readily getting \$22.60."

(Reported for The American Architect and Building News.)

BUILDING PATENTS.

30,307. LOCKER—Boston Machine, Ettsa, Cal.
30,314. LOCK-HINGE—Daneet H. Fitzgerald,
Reading, Pa.
30,320. FIRE-ESCAPE—Joseph Merlin Hodson,
Buffalo, Ontario, Can.
30,321. FIRE-ESCAPE LADDER—Ferdinand
W. Hofele, New York, N. Y.
30,323. ELEVATOR—Merrill N. Hutchinson, New
York, N. Y.
30,324. PNEUMATIC DISPATCH AND SIGNALING
APPARATUS—Edwin S. Leycraft, Jersey City, N. J.
30,325. SWITCH FOR PNEUMATIC TUBES.—Edwin
S. Leycraft, Jersey City, N. J.
30,326. PNEUMATIC DISPATCH FOR TRANSMIT-
TING PARCELS.—Edwin S. Leycraft, Jersey City, N. J.
30,328. FIRE-TRAP.—Frederick Meyer, New
York, N. Y.
30,330. FIRE-ESCAPE.—Edward Painter, East-
hampton, Mass.
30,335. METALLIC LADDER.—Benjamin Scaries,
New York, N. Y.
30,338. VENTILATING APPARATUS.—Henry N.
Wickesham, Wilmington, Del.
30,341. FIRE-ALARM.—J. Gottlieb F. Bauer and
John Williams, Springfield, O.
30,342. PROCESS OF MANUFACTURING PAINTS.
—Charles J. Brewster, Brooklyn, N. Y.
30,346. POLYACETIC-GRATE.—Richard S. T. Cissel,
Elizabeth, N. J.
30,348. ELECTRIC INDICATING DEVICE FOR ELEV-
ATORS.—Chas. L. Ewing, New York, N. Y.
30,350. REVERSIBLE SCRAPER FOR SCRAPING
AWAY OLD PAPER, CALUMINE, ETC., FROM WALLS.
—John E. W. Coleman, San Francisco, Cal.
30,351. FIRE-ESCAPE.—Charles W. Pridgen, Chap-
man Colony, Sandy Creek, N. Y.
30,352. WATER AND WASTE-TYPE.—John J. Her-
bert, Chicago, Ill.
30,353. MACHINE FOR TRIMMING AND PUNCH-
ING SLATES.—Charles W. Rousmer, Mariou, O.
30,354. FIRE-ALARM.—Frank Arthur Simonds,
Chicopee, Mass.
30,355. FIRE-HOLDER.—Wilbur Sargent Young,
Gillespie, Ill.
30,356. AUTOMATIC ELEVATOR-GUARD.—Frank
L. Smith, New York, N. Y.
30,358. INSULATOR FOR LIGHTNING-RODS.—John
Anthony Roth, Baltimore, Md.
30,357. WRENCH.—Edmond H. St. John, Toledo, O.
30,359. FIRE-TRAP AND SMOKE DOOR.—Henry G.
Wolfram, Warren, Wis.

Baltimore.

BEHINDS PRIZES.—Since our last report, thirteen permits have been granted, the more important of which are the following:—
C. D. Hume, three-story brick building, on Hanover st., between Conway and Gannon Sts.
Henry Winkler, three-story brick building, on Hudson St., w. of Carlaw St.

Boston.

Brooklyn.
BUILDING PERMITS.—*Clymer St., n s, 100' e Kent Ave.*, five-story stone factory, tin roof; cost, \$25,000; owner, F. Cowparthwait; architect, W. H. Gaylor; builder, Thomas Gibbons.

Manhattan Bldg., w. c. 325½ Meserole Ave., 2 four-story brick stores and tenements, the roofs; cost, for both, \$14,450; owner, Mary Marrett, 112 Java St. Architect, E. Weber; builders, James Rooney and Thomas Kepple.

Thomas Kepple, c. 290½ c Bushwick Ave., one-and-two-story brick stable, the roof; cost, \$1,000; owner, Otto Huber, Meserole St.; architect, Charles L. Over.

South Fifth St., s. e. cor. Ninth St., one-and-two-story church and Sunday-school rooms, plate and tin roof; cost, \$65,000; owner, St. Paul's E. L. Church, South Fifth and Ninth Sts.; architect, J. C. Cady; builders, W. & T. Lamb, Jr. and Bernard Glatfelter.

Ninth St., s. 62½ South Fifth St., three-sty brick paragona, slate and tin roof; cost, \$7,000; owner, St. Paul & E. L. Church; architects, J. C. Cady & Co.; builders, W. T. Lamb, Jr., and Bernard Klingler.

Myrtle St., 178½ W. Evergreen Ave., extending to Myrtle Ave., two-and-three-sty frame stable and auto garage; cost, \$1,500; owner, A. Lee, 162 South Second St.; architect, J. C. Cady & Co.

River front, 194½ W. Jaramila St., six-sty brick warehouse, gravel roof; cost, \$4,500; owner, F. Woodruff, 92 Iron St.; architect and builder, T.

Powers St., s w cor. Leonard St., four-st'y frame store and tenement, tin roof; cost, \$7,000; owner, M. Reynolds, cor. Larimer and Richardson Sts.; architect, A. Herbert; builders, J. Lehigh and J. Wilson.

Monroe St., n s, 400' w Ralph Ave., 4 two-sty and basement brick dwells., tin roof; cost, each, \$1,700; owner, A. Peck, 733 Monroe St.; architect and carpenter, P. Marryott; mason, T. Miller.

Franklin Ave., a s, 75' s Gates Ave., 2 three-st'y dwell., gravel roofs, wooden cornices; cost, each, \$7,500; owner and builder, J. B. Alexander; architect, J. B. Alexander.

Bedford Ave., w s, 40' n Butler St., three-story and basement tenement, tin roof; owner, Mrs. S. Berry, 418 West Twentieth St., New York; architects, J. H. McElfatrick Sons & De Haven; builder, A. C.

Clifton Pl., n s, 25th w Nostrand Ave., three-story brick tenement, the roof; cost, \$7,000; owner and architect, Henry Van Staden, Clifton Pl., n w cor. Nostrand Ave.; mason, not selected; carpenters, W. Williams & Co.

*Myer St., Nos. 189 and 191, three-st'y brick
below, tin roof; cost, \$8,500; owner, German Evan-
gelical Lutheran St. John Church, Graham Ave.,
cor. Ten Eyck St.; architect, Th. Engelhardt; build-
ers, J. D. Anderson and J. C. Hooper.*

tenement, tin roof; cost, \$3,500; owner, P. J. Campbell, Union Ave., near Frost St.; architect, E. F. Gaylor; builder, not selected.

Fourth Ave., w s, 50' s Seventeenth St., 2 three-st'y brick stores and tenements, tin roofs; wooden cornices; cost, each, \$10,000; owner, Thomas Pitblado, 213 Seventeenth St.; architect, J. R. Pitblado; builders, W. & T. Carroll.

Mourree St., n s, 225 w Broadway, 6 two-st'y frame dwells., gravel roofs; cost, each, \$1,000; owner, Jas. H. Hart, No. 1 Fort Greene Pl.; architect, C. F. Eisenach; builder, J. Hagen.

ALT. EATIONS.—*Court St., No. 233*, new brick front and add one st'y; also four-st'y brick extension; cost, \$6,850; owner, A. Loutiger, on premises; architects and builders M. Krasnowski & Sons.

North Second St., No. 340, add two stories and alter to store and tenement, front wall rebuilt; cost, \$4,000; owner, John A. Albuhn, 378 North Second St.; architect, L. F. Graetzer; builder, J. Schook.

Chicago.

BUILDING PERMITS.—J. Casey, three-st'y store and flats, 107 East Huron St.; cost, \$40,000; architect, J. Otter; builder, E. Lindstrom.
J. Schramm, three-st'y store and dwell., 359 Twenty-seventh St.; cost, \$14,000.

A. Weaver, 3 two-sty dwell., 109 and 111 Seeley Ave.; cost, \$8,000; builder, S. Webb.
Karl Kristan, three-sty store and dwell., 735 Milwaukee Ave.; cost, \$10,000; architect, H. P. Kling.

J. Busby, 4 two-st'y dwells., 3422-3428 Dearborn St.; cost, \$12,000.

W. Collins, two-st'y dwell., 228 Larkin St.; cost,
\$3,000.
J. Gubbins, two-st'y dwell., 10 Winthrop Pl.; cost,
\$3,000.

J. W. Crandal, two-st'y dwell., 3721 Lake Ave.; cost, \$5,000; architect, L. B. Dixon; builders, Bar. uoy & Redman.

W. H. Burnett, 2 two-st'y dwells., 2310 Indiana Ave.; cost, \$8,000; architect, S. S. Beman.
S. L. & J. B. Wood, 2 two-st'y dwells., 814 and 808 West Monroe St.; cost, \$13,000; architect, S. S. Beman.

G. W. Hoffman, 7 thorough stores and family

11. H. Beer, two-st'y dwell., 1223 West Jackson St.; cost, \$3,000.

D. A. Titcomb, two-st'y store and dwell., 124 North West Ave.; cost, \$4,000.

St. Stanislaus School, basement, 55 Bradley St.; cost, \$3,000.
Wm. Mahoney, three-st'y store and dwell., 147 West Jackson St.; cost, \$6,000.

C. Helms, two-st'y dwell., 28 Evergreen Ave.; cost, \$14,000; architect, Wm. Strippelman; builder, Geo. Eberlein.

H. Kerr, 2 two-sty dwells., 1120 and 1122 Jackson St.; cost, \$7,000; architect and builder, P. R. James.

W. M. Crilly, two-st'y livery stable, 200 and 202 Thirtieth St.; cost, \$12,000; architect, F. B. Townsend; builder, W. M. Crilly.

F. P. Artell, two-st'y dwell., 512 West Monroe St.; cont. \$10,000; architect, J. H. Moore; builder, J. Hebard.
J. C. Jagger, two-st'y dwell., 438 Garfield Ave.:

A. Wiggelsworth, two-st'y dwell., 58 Oak St.; cost, \$3,000; architect, A. McIntosh.
H. H. Brinton, 3 two-st'y dwells., 1183 to 1187 Van

R. Meinelowcraft, three-st'y flats, 278-280 East Erie St.; cost, \$18,000; architect, J. S. Woollocott; builders, J. Woollocott & Son.

K. Lehman, 4 four-st'y stores and flats, 558-564 West Harrison St.; cost, \$30,000; architect, S. B. Shlumbo; builder, Geo. Lehman & Co.

D. M. Snow, four-sty store and flats, 3403-3405
State St.; cont. \$11,000; architects, Shuman &

J. D. Becket, 9 three-st'y stores and flats 202-372

J. Aloia, two-story dwell., 607 West Eighteenth St.; cost, \$3,500.

J. M. Cully, two-st'y dwell., 208 West Monroe St.; cost, \$7,000; architect, J. Rucht; builder, M. Hertz.

Chicago Theological Seminary, three-st'y factory,
507-513 West Kinzie St.; cont., \$12,000; architect, F.
Nauchook; builder, C. H. Muller.

T. Nickerson, 2 two-st'y dwells., 3140-3142 Wabash Ave.; cost, \$16,000; architects, Hurling & W...

M. F. Crowe, three-story store and dwell., 102-104 West Indiana St.; cost, \$2,000.

Koe & Chaplin, three-story flats and barn, 67 Mills
St.; cost, \$9,000; architects, Harold & Hanson.
Bethany Congregational Society, two-story church.

or, Superior and Lincoln Sts.; cost, \$1 000; architect, J. C. Moore; builders, Barker & Son.

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H. O. Anderson, two-story dwell., 539 South Leavitt St.; cost, \$2,500; architect, L. B. Halberg.
J. Busch, addition, 554 Michigan St.; cost, \$2,500.
A. Silha, three-story store and flats, 618-530 Blue Island Ave.; cost, \$15,000; architect, P. W. Rueli; builders, Heine & Sayers.
W. H. Thomas, cottages, 881-890-897 Elk Grove Ave.; cost, \$1,900.
Dr. J. Ulrich, two-story dwell., 292 Centre Ave.; cost, \$5,500; architects, Cudde & Blumenthal; builders, Mueller & School.
J. M. Dowling, three-story dwell., 129-133 Pearson St.; cost, \$30,000; architect, A. Smith; builder, J. M. Dunphy.
P. & W. Irwin, three-story store and flats, 897-463 Milwaukee Ave.; cost, \$24,000; architect, J. J. Egan; builder, M. J. Benson.
W. Howe, two-story dwell., 352 Fourteenth St.; cost, \$2,700.
F. Schulz, two-story dwell., 904 Eighteenth St.; cost, \$2,700.
Ashbury Church, church, 3120 Fifth Ave.; cost, \$6,000; architect, C. M. Palmer.
F. Key, three-story store and dwell., 188 East North St.; cost, \$6,000; architect, Rehwalder.
L. A. Bailey, two-story dwell., 760 Hubbard St.; cost, \$2,500.
Helmley & Jung, four-story bakery, cor. State and Twenty-fourth St.; cost, \$60,000; architects, Furst & Rudolph; builder, H. Appel.
A. Churchill, three-story store and dwell., 184 and 186 Green St.; cost, \$12,000; architect, C. O. Miller; builders, O'Neil Bros.
Thos. Fursell, four-story store and dwell., 149 West Twelfth St.; cost, \$10,000; architect, W. Rueli; builders, Kelly & Conroy.
M. O'Donnell, two-story dwell., 3831 and 3833 Vernon Ave.; cost, \$5,000; architect, J. J. Egan; builder, J. Conley.
W. J. Watson, two-story dwell., 2610 Prairie Ave.; cost, \$30,000; architects, Treat & Folz; builder, A. Hienel.
M. P. Irwin, three-story store and flats, 1188 West Van Buren St.; cost, \$9,000; architects, J. Van Osdel & Co.; builders, Clark Bros.
C. Klehn, two-story flats, 333 West Huron St.; cost, \$3,500.
Leland Skating Rink Co., skating-rink, 412 to 430 North Clark St.; cost, \$7,000.
C. Edwards, architect, F. Koltanick.
U. C. Johnson, three-story flats, 82 West Huron St.; cost, \$1,000.
W. H. Thomas, two-story dwell., 1417 West Jackson St.; cost, \$2,500.
E. J. Itala, one-story cottages, Twenty-fourth Place; cost, \$1,000.
F. Haskouelch, two-story flats, Laurel St.; cost, \$3,300.
F. Fegel, two-story flats, 503 West Fourteenth St.; cost, \$4,100.
Mrs. B. Bloom, two-story store and flats, 213 to 257 Thirty-first St.; cost, \$25,000; architects, Treat & Folz; builder, W. Hilt.
E. Zuercher, two-story dwell., 323 Twenty-second St.; cost, \$4,300.
N. Krauser, store, 985 Milwaukee Ave.; cost, \$4,000.
G. Seipp, two-story dwell., 2060 to 2064 Groveland Park Ave.; cost, \$22,000; architects, Bauer & Hill; builder, O. Thiele.
J. Walker, two-story cottages, Hanover St., cor. Twenty-eighth St.; cost, \$2,700.
F. H. Keller, two-story dwell., 803 Clybourn Ave.; cost, \$3,000.
J. A. Lamb, two-story dwell., 1254 West Monroe St.; cost, \$2,800.
Chas. Shober, three-story dwell., 514 Wells St.; cost, \$10,000.

Cincinnati.

BUILDING PERMITS.—Mrs. Klefer, three-story brick building, n. e. of Kim St., between Liberty and Green Sts.; cost, \$1,000.
Wm. Fogarty, two-story brick building, w. e. of Gilbert Ave., cost, \$2,000.
Shm. Doll, two-story brick building, 515 Walnut St.; cost, \$2,000.
H. J. Winton, two-story frame building, s. e. of Eastern Ave., between Reed and Broad Sts.; cost, \$2,000.
J. S. Dauphey, two-and-one-half-story frame building, w. s. of Eastern Ave.; cost, \$2,500.
Six permits for repairs, costing \$4,000.
Total cost to date, \$249,250.
Total permits to date, 635.

New York.

ARMORIES.—The Slaking Fund Commissioners have authorized an expenditure of \$2,000,000 for new armories. A competition for plans has been decided on.
BREWERY.—Conrad Stolz's brewery, on Fifty-sixth and Fifty-seventh Sts., between Fifth and Eleventh Aves., is to have additions and alterations made, at an expense of about \$50,000, from plans of Mr. Julius Kettner.
INAMINATION is the order of the day. The stone-mason strike seems to be the last straw to break the camel's back, and outside of the most ordinary work of "up-town" speculative builders, "we find no work not previously noted to report."
BUILDING PERMITS.—Thirteenth Ave., s. e. cor. Fourteenth St., two-story brick storage warehouses, gravel roofs; cost, each, \$42,000; owners, H. K. Thurber & Son, 146 West Twelfth St.; architect and builder, J. G. McMurray.
One Hundred and Twenty-fifth St., n. e. 225 e Seventh Ave., three-story brick stable, tin roof; cost, \$30,000; owner, William E. Dean, 25 East One Hundred and Twenty-fourth St.; architect, Cleverdon & Puzel.
Eight Ave., s. e. 100 e 100 e One Hundred and Twenty-second St., four-story brick tenements, tin roofs; cost, each, \$11,000; owner, Lorenz Wolber, New Rochelle; architect, J. F. Burrows.
One Hundred and Forty-ninth St., s. e. 100 e Third Ave., three-story frame tenements, tin roof; cost, \$3,000; owner, Lydia A. Seife, Third Ave., cor. One Hundred and Forty-ninth St.; architect, A. Pfeiffer.

One Hundred and Fifty-first St., n. e. 275 e Courtlandt Ave., three-story frame tenement, tin roof; cost, \$5,500; owner, Geo. Stolz, 642 North Third Ave.; architect, same as last.
Fourth Ave., s. e. cor. One Hundred and Thirtieth St., five-story brick store and apartment-house, tin roof; cost, \$24,000; owner, Wm. Henderson, 512 East Eighty-second St.; architect, J. C. Burne; builder, not selected.
One Hundred and Thirtieth St., s. e. 20 e Fourth Ave., five-story brick store and apartment-house, tin roof; cost, \$21,000; owner, etc., same as last.
One Hundred and Thirtieth St., s. e. 62 e Fourth Ave., five-story brick apartment-house, tin roofs; cost, \$20,000; owner, architect and builder, same as last.
Norfolk St., n. w. cor. Hester St., five-story brick tenement, tin roof; cost, \$15,000; owner, Jacob Gottlieb, 33 Hester St.; architect, Chas. Rents.
Sixty-ninth St., s. e. 100 e Ninth Ave., four-story brown-stone front dwell., tin roofs; total cost, \$90,000; owner, Chas. L. Guillaume, 66 East Seventy-sixth St.
One Hundred and Tenth St., s. e. 170 e Third Ave., four-story brick tenements, tin roofs; cost, each, \$16,000; owner, Timothy Daly, Jr., 323 East Eighty-sixth St.; architect, Elbert D. Howe; builder, Hugh Meehan.
One Hundred and Thirtieth St., n. e. 17 e Boulevard, two-story brick building, tin roof; cost, \$28,000; owner, Chas. Frauke, 135 West One Hundred and Thirtieth St.; architect, Wm. Ortol.
ACREATIONS.—Bathurst Pl., No. 3, four-story brick extension, tin roof, interior alterations; cost, \$6,000; owner, A. H. Flanders; architect, H. Kreidler.
West One Hundred and Twenty-fifth St., No. 40, one-story and basement brick extension, tin roof, at store-front in first story; cost, \$3,000; owner, Bernard McGurk, 341 East One Hundred and Twenty-fourth St.; architect, Chas. Rents.
One Hundred and Thirty-fourth St., s. e. 150 e Lincoln Ave., raise one story; cost, \$5,000; owner, The New York Wood-Turning Co., on premises; architect and builder, Wm. J. Merritt.
Ninety-fifth St., s. e. 110 e Third Ave., to finish four uncompleted buildings; cost, \$7,000; owner, Richard Claffy, 303 Bushwick Ave., Brooklyn; architect, E. D. Howe.

Philadelphia.

OUTREACH.—Tacony St., cor. of Keystone and Unruh Sts., the St. Leo's R. C. Church is being erected from plans by Frank Watson, architect; 68' x 140'; cost about \$60,000.
BUILDING PERMITS.—Garrett St., e. of Twenty-first St., 11 two-story dwell., two, 16' x 35', twelve, 14' x 28'; Jno. White, owner.
Broad St., cor. Cumberland St., three-story store and dwell., 20' x 60'; J. N. Pattison, contractor.
Fifth St., cor. Columbia Ave., four-story factory and boiler-house, 63' x 100'; Geo. Krieger, contractor.
Howard St., n. of Somerset St., two-story dwell., 18' x 42'; W. A. N. Fuller, owner.
Ridge Ave., n. of Seligley St., three-story dwell., 18' x 42'; J. Stout, owner.
James Ave., e. of Ridge Ave., two-story dwell., 18' x 40'; Chas. Bartle, contractor.
Twenty-second St., n. of Allegheny Ave., 3 two-story dwell., 17' x 40'; J. H. Thompson, contractor.
Howard St., n. of Cambria St., two-story dwell., 17' x 40'; J. Firth, contractor.
Curling St., n. of Susquehanna Ave., 7 two-story dwell., 14' x 40'; Jas. O. Carey, owner.
Dunpeth St., w. of Fifteenth St., two-story dwell., 16' x 30'; Jas. Shoemaker, owner.
Penn St., n. of Allen St., three-story dwell., 20' x 68'; Wilson Milner, contractor.
Twenty-fifth St., n. of Chestnut and Stewart Sts., 6 three-story dwell., 18' x 34'; J. G. Kull, contractor.
Sharewood St., bet. Twenty-fifth and Twenty-sixth Sts., 11 two-story dwell., 18' x 34'; J. G. Kull, contractor.
Stewart St., bet. Twenty-fifth and Twenty-sixth Sts., 11 two-story dwell., 18' x 34'; J. G. Kull, contractor.
North Eleventh St., No. 2242, two-story dwell., 16' x 40'; Jos. Lutz, contractor.
Dorrian St., No. 1322, two-story dwell., 16' x 28'; C. J. Newman, contractor.
Greenway Ave., w. of Seventy-fourth St., two-story dwell., 30' x 32'; G. T. Patchel, contractor.
Cresheim Creek, near new railroad bridge, two-story factory building, 30' x 60'; D. Hey, owner.
Eight St., n. of Cumberland St., two-story dwell., 18' x 40'; A. D. Kennedy, owner.
James Ave., e. of Ridge Ave., two-story dwell., 17' x 40'; D. Nunnville, owner.
Franklin St., cor. Foulkrod St., two-story dwell., 16' x 40' and 20' x 67'; A. H. De Grota, contractor.
Twenty-ninth St., s. of Oxford St., 2 two-story dwell., 18' x 40'; Henry Rankin, owner.
Oxford St., e. of Twenty-eighth St., 2 two-story dwell., 18' x 40'; Henry Rankin, owner.
Frankford Road, n. of Clearfield St., two-story store and dwell., 18' x 60'; Henry O. Schutte, contractor.
Thirty-seventh St., cor. Hartwell Ave., three-story dwell., 28' x 112'; Wm. O. Mackie, contractor.
Sixth St., e. of Cumberland St., three-story dwell., 17' x 54'; W. H. Leaver, contractor.
Vine St., w. of Fifty-sixth St., two-story dwell., 16' x 44'; Geo. Willette, owner.
Lycum Ave., No. 460, three-story dwell., 18' x 60'; E. O. Parker, owner.
Ash St., n. w. of Richmond St., three-story store and dwell., 16' x 40'; A. H. De Grota, contractor.
Ash St., n. w. of Richmond St., three-story dwell., 16' x 40'; A. H. De Grota, contractor.
Crosby St., s. of Montgomery Ave., 6 three-story dwell., 19' x 47'; Jno. S. Merrill, owner.
Twenty-third St., cor. Morris St., two-story dwell., 17' x 51'; Haines & Hubber, contractors.
Fisher St., No. 113, two-story dwell., 16' x 32'; Bridget Blake, owner.

Frankford Road, No. 3138, three-story dwell., 20' x 40'; Thos. J. Goldsmith.
Marion Ave., w. of Forty-fifth St., 7 two-story dwell., 18' x 35'; Jno. Bateman, Jr., owner.
South St., No. 507, three-story store and dwell., 15' x 61'; Dahl & Kidel, contractors.
Achenat St., e. of Main St., 2 two-story dwell., 16' x 30'; G. W. Kaupp, owner.
Fifth St., cor. Aspen St., 4 two-story dwell., 13' x 42'; Daniel Planger, owner.
ALTERATIONS AND IMPROVEMENTS are being made to the St. Peter's R. C. Church, Fifth St., cor. Harvard Ave., and to St. Philip's R. C. Church, Second St., cor. Queen St.; from plans by Doory & Keeri, architects and civil engineers.

St. Louis.

BUILDING PERMITS.—Fifty permits have been issued since our last report, nineteen of which are for unimportant frame houses. Of the rest, those worth \$2,500 and over are as follows:—
Mr. Johnson, 2 adjacent two-story dwell.; cost, \$7,000; A. Whirl, contractor.
Joseph Gallagher, two-story brick building; cost, \$5,000; Jos. Gallagher, contractor.
G. Waugh, 2 adjacent two-story tenements; cost, \$3,000; G. Waugh, contractor.
H. Curtis, two-story brick dwell.; cost, \$5,000; B. J. Gosses, architect; Gosses & Kemmerer, contractor.
Morris Maloney, 2 adjacent two-story tenements; cost, \$4,000; T. Murphy, contractor.
Herman Stamm, 2 adjacent two-story tenements; cost, \$7,000; Geo. Rosner, contractor.
D. Malone, two-story brick dwell.; cost, \$3,000; T. Murphy, contractor.
D. Malone, two-story brick dwell.; cost, \$3,000; T. Murphy, contractor.
St. Vincent Parish, two-story brick school-house; cost, \$10,000; J. S. Frye, contractor.
T. Manning, 3 adjacent two-story tenements; cost, \$6,000; F. Manning, contractor.
R. C. Miller, two-story brick dwell.; cost, \$2,000; R. C. Miller, contractor.
James Burke, 2 adjacent two-story dwell.; cost, \$3,500.
Thomas Kinnear, two-story brick tenement-house; cost, \$3,000; M. Saine, contractor.
Rock Spring Distilling Co., one and two-story distillery; cost, \$10,000; Jno. Bambrick, contractor.
Wm. Behrens, two-story brick tenement; cost, \$3,000; Schulermann & Gross, contractors.

General Notes.

BURLINGTON, VT.—C. Macomber, wood dwell.; cost, \$6,000; D. S. Hopkins, Grand Rapids, Mich., architect.
BURLETON, PA.—The M. E. Church will be remodelled, and new spire added; from plans by Haxelhurst & Haxel, architects, Philadelphia, Pa.
CASSELL, MICH.—D. S. Kingsbury, wood dwell.; cost, \$6,000; D. S. Hopkins, Grand Rapids, Mich., architect.
CONSHOHOCKEN, PA.—Public school-house, of pressed brick and Trenton brown-stone, 32' x 100'; probable cost, \$18,000; plans by Haxelhurst & Haxel, architects, Philadelphia, Pa.
FARMINGDALE, L. I.—Two-story frame dwell., cost, \$3,000; W. Ludlam, owner; George H. Helmle, architect.
FARMINGTON, CONN.—The women who have been members of Miss Porter's school have raised \$5,000 which will build a memorial hall to be used in connection with the school, for music-rooms and a studio. The hall will be 30' x 40', and two stories high.
GREEN COVE, N. Y.—The plans for the new Episcopal church in this village have been completed by H. M. Congdon, of New York. The cost will not exceed \$12,000. The work will be vigorously prosecuted, with a view to completion by Christmas.
GRAND RAPIDS, MICH.—The building interest is rather quiet architecturally in this section at present; at the same time there are a great many cheap, small dwell. being built in the suburbs, and mechanical seems to be quite busy.
The fall work seems to be of the latter class mostly.
W. A. Bencke, wood dwell.; cost, \$2,500; D. S. Hopkins, Grand Rapids, Mich., architect.
J. B. Evans, wood dwell.; cost, \$2,500; D. S. Hopkins, Grand Rapids, Mich., architect.
Miss McElwain, wood dwell.; cost, \$2,000; D. S. Hopkins, Grand Rapids, Mich., architect.
ILWACO CITY, MICH.—E. E. Palmer, wood dwell.; cost, \$4,000; D. S. Hopkins, Grand Rapids, Mich., architect.
JACKSONVILLE, WIS.—Albert Kavlage, wood dwell.; cost, \$3,000; D. S. Hopkins, Grand Rapids, Mich., architect.
KALAMAZOO, MICH.—G. E. Stockbridge, wood dwell. and stable; cost, \$8,000; D. S. Hopkins, Grand Rapids, Mich., architect.
KANSAS CITY, MO.—D. B. McMechan, brick residence at 1335 Penn St.; cost, \$6,000.
Dr. W. H. Kimberlin, double brick residence on Meade St., near Independence Ave., four-story, and 30' x 40' cost, \$8,000.
James Park, brick house, at s. w. cor. Eighteenth St. and Broadway; cost, \$3,000.
MINNEAPOLIS, MINN.—R. F. Lidgerwood, three-story brick store and 4 date, Washington Ave., bet. Thirteenth and Fourteenth Aves.; cost, \$6,000.
Pilgrim Congregational Church Society, wooden church, s. w. cor. Lyndale and Fourteenth Ave.; cost, \$11,000.
F. L. Bliss, two-story wood dwell., w. Fifteenth Ave., s. near Eighteenth St.; cost, \$4,000.
George H. Hunt & Sons, two-and-one-half-story dwell., cor. of Park and Sixteenth Aves.; cost, \$1,000.
John Hilland, double store, two-story, cor. of Twelfth St. and Twentieth Ave.; cost, \$1,000.
Andrew Charles, double wooden tenement, cor. Seventeenth Ave. s. and Twenty-fifth St.; cost, \$1,000.
NEWARK, N. J.—The cornerstone of a new parsonage residence for the Rev. Father William Fritsch, pastor of St. Peter's Roman Catholic (German) Church, on Belmont Ave., was laid September 14.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report thirty-five permits have been granted, the more important of which are the following:—
J. G. Sauer, three-story brick building, n e Lombard St., between Bond and Dallas Sts.
Henry Borgman, 6 two-story brick buildings (square), e s Madison Alley, between Monument and McCherry Sts., and 5 two-story brick buildings, w s Patterson Park Ave., between Monument and McCherry Sts.
Irvin W. Carter, 6 two-story brick buildings, commencing n e cor. Fulton Ave. and Wilhelm St.
P. Cassidy, three-story brick building, n e cor. Chase and Valley Sts.
Broderick Bros., three-story brick warehouse and one-story brick shop, n e Pratt St., w of Green St.
W. Nissler, three-story brick building, n e Chow St., between Bond St. and Broadway.
Jas. Magarity, 4 three-story brick buildings, n e Preston St., w of Broadway.
Jas. P. Rock, 3 two-story brick buildings, commencing n e cor. Monument St. and Jew Alley.
E. W. Harland, 4 two-story brick buildings, w s Winder St., between Hanover St. and Goodman Alley, 4 two-story brick buildings, n e McComas St., between Hanover St. and Goodman Alley, and 10 two-story brick buildings, w s Goodman Alley, between Winder and McComas Sts.
Wm. Carback, 3 two-story brick buildings, w s Chapel St., between Chell and Kager Sts.
Wm. T. Phillips, 6 two-story brick buildings, commencing n e cor. Franklin St. and Arlington Ave., and 5 three-story brick buildings, w s Arlington Ave., s of above.
Wm. A. Brooks, 7 three-story brick buildings, e s Barclay St., w of Townsend St.

Boston.

BUILDING PERMITS.—*Nealand St.*, n South St., Ward 24, for Wm. Donaldson, brick dwell., 12' x 30' and 32' x 31', flat; Wm. Donaldson, builder.
Station St., cor. Hallowell St., Ward 22, for A. J. Houghton & Co., brick office, 20' x 10', 1st flr.
Cumberland St., cor. St. Botolph St., Ward 11, for T. E. Thompson, 2 brick dwells., 30' x 45', flat; J. E. Potter, builder.
West Camden St., No. 212, Ward 10, for Standard Corrugate Co., brick office, 20' x 20', pitch; H. Drake, builder.
East Fifth St., Nos. 704-706, for H. B. Stratton, 3 dwells., 22' x 50' flat; H. B. Stratton, builder.
Tremont St., No. 122, Ward 10, for S. Kinsman, storage; A. McLean, builder.
Meridian St., cor. Conder St., Ward 1, for R. Claver, dwell. and store, 24' x 31', flat; E. Heustis, builder.
Adams St., n Dix St., Ward 24, for M. A. King, 2 dwells., 12' x 16' and 21' x 22', pitch; Gilbert & White, builders.
New Center St., No. 8, Ward 24, for Chas. Jenkins, 3 dwells., 20' x 25', pitch; J. P. Litch, builder.
Forest Hill Ave., w s Ward 24, for D. S. Black, dwell., 20' x 45', pitch; A. H. Pierce, builder.
Lynette St., cor. South St., Ward 19, for George Kamppe, dwell., 12' x 25' and 23' x 27', flat; V. Book, builder.
Cambridge St., n Parker St., Ward 4, for A. Stone, dwell. and store, 27' x 40', flat; N. J. McLean, White, builder.
Oak St., cor. Farrington Ave., Ward 23, for Chas. F. Koopman, dwell., 10' x 19' and 27' x 30', pitch; W. S. Mitchell, builder.
Congress St., n Ward 13, for N. E. Tel. & Tel. Co., mechanical and storage, 22' x 200', pitch; F. A. Bruce, builder.

Brooklyn.

BUILDING PERMITS.—*Midway St.*, No. 49, four-story brick tenement, tin roof; cost, \$1,000; owner, Alfred Hadden, 133 Bridge St.; builder, W. Rogers.
Van Buren St., s s, 120' s Broadway, 6 two-story frame (brick filled) dwells.; cost, each, \$3,500; owner and builder, Samuel Post, Broadway, cor. Van Buren St.; architect, H. Vulliamy.
Tompkins Ave., s w cor. Quincy St., 5 three-story and four-story brown-stone stores and dwells., tin roofs; cost, each, \$6,000; owners, Messrs. Stewart & Hubbard, 313 Quincy St.; architect, E. G. Taylor; builder, J. M. Stewart.
Douglas St., No. 153, being 250' e Bond St., three-story brick tenement, tin roof, wooden cornice; cost, \$1,000; owner, architect and builder, J. M. O'Neill, 112 Hoyt St.
Herkimer St., s s, 28' e Bedford Ave., 3 three-story brown-stone dwells., tin roofs, cost, each, \$7,000; owner, M. E. Stafford, 16 Herkimer St.; architect, A. Hitt; builder, John Stafford.
Madison St., s s, 180' e Tompkins Ave., 3 two-story dwells., tin roofs, wooden cornice; cost, each, \$1,500; owner, architect and builder, Chas. Leblit, 693 Herkimer St.
Ninth Ave., s s, 210' e Evergreen Ave., two-story dwell., tin roof, cost, \$3,500; owner, F. But, Flushing Ave.; builder, G. C. Brada.
Broadway, w s, 8' n Willoughby Ave., 3 three-story brick stores and dwells., tin roofs; cost, each, \$6,000; owner and builder, Fr. Herr, 718 Broadway; architect, J. Herr.
Madison St., No. 306, s s, 207' e Sumner Ave., three-story frame (brick filled) tenement, tin roof; cost, \$3,500; owner and builder, George Straub, 11 Lewis Ave.; architect, Th. Engelhardt.
Madison St., Nos. 308-314, s s, 208' e Sumner Ave., 4 three-story frame (brick filled) tenements, tin roofs; cost, each, \$4,200; owner, builder and architect, same as last.
Henry St., n e cor. Harrison St., 6 four-story brown-stone tenements, tin roofs; cost, each, \$12,000; owner and builder, Cornelius Donelson, Pacific St., near Henry St.; architect, Geo. P. Chappell.
Madison St., w s, 50' s Huron St., three-story frame (brick filled) tenement, gravel roof; cost, \$1,300; owner, John McNulty, 124 Huron St.; architect, J. McNulty; builders, Post & Walker.

Leonard St., w s, 150' n Calyer St., 2 three-story frame tenements, gravel roof; cost, \$10,000; owner, Julia Burpee, 118 Oak St.; architect, F. Weber; builders, Post & Walker.
Harrison St., s s, 70' n Henry St., four-story brick tenement, tin roof; cost, \$12,000; owner and builder, Cornelius Donelson, Pacific St., near Henry St.; architect, G. P. Chappell.
North Second St., No. 125, n s, 30' e Third St., four-story brick tenement, tin roof; cost, \$5,000; owner and builder, Patrick Harden, s e cor. North Second and Third Sts.; architect, A. Herbert.
India St., s s, 100' e Manhattan Ave., two-story brick school, tin roof; cost, \$7,000; owner, P. F. O'Hare, Manhattan Ave.; architect, E. F. Mahoney; builders, John Harford & Son and John Quigley.

Chicago.

HOUSES.—Furst & Rudolph, architects, have completed plans for dwell., to be erected on Ashland Ave. and York St., for L. I. Ims, Milwaukee pressed-brick, Carbondale stone front, slate roof; cost, \$35,000.
Two houses to be built on Ashland Ave., near Van Buren St., for M. Hirsch, were planned by the same architects, Anderson pressed-brick, brown-stone trimmings; cost, \$25,000.
Stricker and Elgar.—Architects Furst & Rudolph planned the stores and flats now building for Heisler & Junge, at State and Twenty-fourth Sts., 100' x 125', four-story, Anderson pressed-brick, stone trimmings and slate roof, about \$25,000.
Church.—Furst & Rudolph planned the Lutheran Church at Lake View, 50' x 100', to be built of pressed-brick.

BUILDING PERMITS.—*E. Wilhelm*, two-story dwell., 27 Huron St.; cost, \$3,800; architect, O. Bruntz; builder, M. Zipprich.
F. Heibardt, two-story dwell., 702 West North Ave.; cost, \$2,500.
C. A. Blaurock, three-story store and flats, 1010 West Harrison St.; cost, \$3,000; architect, W. H. Frazer.

J. M. Faalhaber, three-story dwell., 235 North Clark St.; cost, \$15,000; architect, Otto Metz; builder, G. Seefke.
J. Batterman, three-story dwell., Ashland Ave.; cost, \$6,500.
N. A. Smith, two-story dwell., 345 South Roby St.; cost, \$1,000; architect, J. Austin.

L. S. Miller, 5 two-story dwells., 55 to 58 North Weston Ave.; cost, \$9,000; architect, H. F. Clay.
Wm. A. Hospital and Dormitory, four-story hospital, Adams and Paulina Sts.; cost, \$14,000.
J. H. Batterman, two-story dwell., 437 Dearborn Ave.; cost, \$6,000; architect, J. H. Huber; builders, McCarthy & Co.
F. Koupke, two-story dwell., 680 North Paulina St.; cost, \$3,500.

H. Kunze, two-story store and dwell., 70 East North Ave.; cost, \$1,500.
H. Kasper, 3 three-story dwells., 14 Fowler St.; cost, \$1,000.
J. Spry, 3 two-story dwells., 112 and 114 Sangamon St.; cost, \$7,000.
P. Becker, 2 two-story stores and dwells.; cost, \$6,000.

J. Haber, three-story store and dwell., State St.; cost, \$10,000; architect, J. F. Doerr; builder, M. Schmidt.
Traders' Safe and Trust Company, seven-story office building, 5 to 11 Pacific Ave.; cost, \$25,000; architect, H. H. Root; builder, E. Sturtevant.
W. Ruenstall, two-story store and dwell., 311 West Division St.; cost, \$2,500.

J. E. Hutton, three-story dwell., 909 Thirty-eight St.; cost, \$2,500.
M. Adams, two-story dwell., 7 Lane Pl.; cost, \$6,000; architect, U. Spohr; builder, D. Wille.
W. Wuestenfeld, two-story store and dwell., 146 Webster Ave.; cost, \$8,000; architect, Stanger.
Armour, Dole & Co., corn-crib, Morgan St.; cost, \$80,000; architects, Baumann & Lutz.

L. W. Foley, 4 cottages, 67 North Western Ave.; cost, \$1,000.
H. Seidel, two-story dwell., 492 North Wood St.; cost, \$2,600.
Wm. Lange, three-story store and dwell., 3206 State St.; cost, \$4,000.

Garner Bros., 2 three-story stores and dwells., 633 and 335 Hanover St.; cost, \$9,000.
F. Diersen, two-story addition, 26 and 28 North Canal St.; cost, \$3,500.
Geo. & Lave, two-story store and dwell., 3229 South State St.; cost, \$5,500.

H. Wollner, two-story store and dwell., 3362 Halsted St.; cost, \$3,500.
J. M. Maudry, two-story dwell., 660 Twenty-second St.; cost, \$4,000.
Leonigan, Hichole & Ecklan, 4 three-story dwells., 3 to 5 Sedgwick St.; cost, \$12,000.

Wm. Hingwanth, one-story boiler-shop, 50 to 61 West Division St.; cost, \$15,000.
Mrs. J. Schmidbauer, two-story store and dwell., 116 Hastings St.; cost, \$3,800.
Geo. Kappis, two-story dwell., 33 Ewing St.; cost, \$7,000; architects, Frohmann & Jeeban; builder, Chas. Krifer.

W. Thomas, two-story dwell., 938 Adams St.; cost, \$6,000; architect, W. Thomas; builder, D. H. Hays.
Chas. Rowan, two-story dwell., 351 Centre Ave.; cost, \$3,600.
A. Ross, 2 two-story dwells., 43 and 65 Florine St.; cost, \$5,000.

M. Markig, three-story dwell., 209 Hudson Ave.; cost, \$3,800.
W. E. Dankert, two-story dwell., 210 Evergreen St.; cost, \$3,500.
E. C. Haling, two-story store and dwell., 94 North Ashland Ave.; cost, \$3,000; architects, Wheelock & Clay.

E. S. Williams, two-story dwell., 3200 South Park Ave.; cost, \$10,000; architect, L. G. Halberg; builder, A. G. Hagaman.
T. Goodwin, two-story dwell., 350 West Huron St.; cost, \$4,400.

A. S. Schubert, three-story store and dwell., 170 Larabee St.; cost, \$7,000; architect, Ottar; builder, M. Zipprich.

W. S. Grannis, 2 two-story dwells., 1033 and 1035 West Jackson St.; cost, \$3,000.
J. Kruse, store, 238 Evergreen Ave.; cost, \$3,000.

J. Caley, two-story store and dwell., 1561 Milwaukee Ave.; cost, \$1,500; architect, Cookman.
O. H. Starkweather, four-story dwell., 209 Third Ave.; cost, \$6,500.
K. A. Langland, two-story dwell., 470 Seventeenth St.; cost, \$2,500.

Wm. Mullon, two-story dwell., 485 Thirteenth St.; cost, \$2,600.
Barrett & Barrett, four-story warehouse, 250 and 252 Kinzie St.; cost, \$8,000.
J. L. Campbell, 4 two-story dwells., 287 to 291 Flournoy St.; cost, \$12,000.

P. Grady, two-story dwell., 433 West Harrison St.; cost, \$4,000; architect, Halberg; builder, A. Blomori.
J. Vilas, 2 three-story stores and dwells., 3109 and 3111 State St.; cost, \$12,000.
Geo. Blanning, two-story dwell., 391 Thirty-sixth St.; cost, \$3,000.

Turner & Bond, 15 cottages, Farnell Ave., near Thirty-first St.; cost, \$20,000.
H. Korlitz, 4 three-story stores and flats, 1146 and 1118 Southwestern Ave.; cost, \$11,000.

Des Moines.

ADDITION.—Hawthorn school-house, brick and stone; cost, \$6,000.
BUSINESS BLOCKS.—*O. Youngman*, four-story pressed-brick front on Locust St.; cost, \$25,000.
L. Lehm, three-story and basement brick, on Fourth St.; cost, \$13,000.

CHURCH.—*Episcopal*, Sioux Falls and red rock trimmed with buff sandstone; Gothic; cost, \$40,000.
FACTORY.—*F. M. Christy*, three-story and basement on Twenty-ninth St.; cost, \$9,000.

SCHOOL.—On North Twelfth St., three-story brick and stone buildings; cost, \$15,000.
HOUSES.—*H. D. Hedge*, three-story Queen Anne, on Greenmount Ave.; cost, \$10,000.
J. Shorman, three-story frame, on Woodland Ave.; cost, \$15,000.
O. Howell, two-story frame, in North Des Moines; cost, \$4,500.

C. H. Hirschell, 2 double brick residences, on North Ninth St.; cost, \$7,000.
Foster & Liebbs, architects, for all the above.

Detroit.

BUILDING PERMITS.—*A. C. Varney*, roller skating rink, West High St.; cost, \$15,000.
Galvin Brass & Iron Works, factory, cor. Warren Ave. and Twelfth St.; cost, \$12,000.
A. C. Varney, double brick dwell., 301 and 303 Second St.; cost, \$7,000.

A. C. Varney, block, Nos. 486-502 Brush St.; cost, \$18,000.
W. Potter, dwell. on Garfield St.; cost, \$6,000.
O. B. Cole, brick dwell., No. 89 Fremont St.; cost, \$4,000.
William Parker, packing-house, Rost St.; cost, \$12,000; Jos. Morcos, contractor.
O. B. Cole, dwell., West Willis Ave.; cost, \$5,000.
A. C. Skinner, additions to Abstract Building, Lafayette Ave.; cost, \$3,000.

This is an unusually dull season for building operations in Detroit.

Milwaukee, Wis.

LUMBER.—The movement of lumber during the past season has been on a larger scale than in the same period last year, while shingles and shingle saws a falling off. Prices have undergone very little change, and yard rates at the close are about the same as in 1883. The cargo trade has been concentrated in a few hands, both here and at Chicago, and sales are so long as to be obtained. Stocks on hand are liberal, and dealers here sell at lower figures than are quoted at Chicago.

Wholesale yard rates at the close of the season compare with those of last year as follows:

	1883.	1884.
First and second clear, 3-inch.....	\$48.00	\$48.00
First and second clear, 2-inch.....	48.00	48.00
First and second clear, 1 1/2 to 2 inches.....	45.00	45.00
Third clear, 1 1/2 to 2 inches.....	40.00	40.00
A, select, 1 1/2, 1 1/4 and 2 inch.....	40.00	40.00
B, select, 1 1/2, 1 1/4 and 2 inch.....	33.00	33.00
C, select, 2 1/2 to 4 inch.....	27.00	27.00
A stock-boards, 12 to 16 feet, 12-inch.....	40.00	39.00
B stock-boards, 12 to 16 feet, 12-inch.....	36.00	36.00
C stock-boards, 12 to 16 feet, 12-inch.....	31.00	31.00
D stock-boards, 12 to 16 feet, 12-inch.....	29.00	29.00
A box, 13-inch and upward.....	45.00	45.00
B box, 13-inch and upward.....	41.00	41.00
C box, 13-inch and upward.....	31.00	31.00
Flooring, first common, 6-inch.....	36.00	34.00
Flooring, second common, 6-inch.....	33.00	32.00
Narrow, common, dressed and match'd, 12.00	18.00	18.00
Siding, first and second clear, 12 to 16 feet.....	22.00	21.00
Siding, first common.....	21.00	20.00
Siding, second common.....	19.00	18.00
Common boards, 18 to 20 feet, 12-inch.....	18.00	17.50
Common boards, 16, 12 and 20 feet, 12-inch.....	14.50	14.50
Common boards, 14 to 16 feet, 12-inch.....	14.00	13.50
No. 2 boards, 12 to 16 feet.....	12.00	11.00
Fencing, first, 12 to 20 feet.....	15.00	14.00
Fencing, standard A, 12 to 20 feet.....	11.00	11.00
Two-inch joist and scantling, 12 to 14 feet.....	13.50	12.00
Two by four, 2 x 8, 3 x 12, 12 to 16 feet.....	12.50	11.50
Timber, 4 x 4 to 8 x 8, 12 to 16 feet.....	13.50	12.50
Small timber, 2 x 4, 4 x 4, 10 to 20 feet.....	15.00	13.00
Cull plank, 2-inch.....	9.00	8.00
Pickets, flat, rough, good.....	8.00	8.00
Pickets, fancy head and dressed, selected.....	18.00	18.00
Shingles, extra A.....	3.00	2.50
Shingles, choice A.....	2.75	2.50
Shingles, standard A.....	2.50	2.25
Lath, dry.....	2.50	2.10

New York.

ENGINE-HOUSE.—Mr. George Ehret will have built an engine-house and a boiler-house on his premises, on Ninety-third St., from designs of Mr. A. Pfund.

BRICK-CLAYS AND BUILDING-BRICKS.



CLAY suitable for the manufacture of building-bricks is an abundant material, and it is found, combined with other substances, in beds of varying depths, the term clay being applied to hydrous silicates of aluminum, and is produced for the most part by the wearing down and decomposition of felspathic rocks, and the precipitation in basins, from the suspension in water, of the finely-divided impalpable particles. The rocks containing a good proportion of oxide or salts of iron form red clays, and those having only traces form white clays.

The hydrous silicate of alumina or pure clay is infusible, even in the most intense heat; but when mixed with the alkalis or alkaline earths, it becomes fusible in proportion to the admixture. There is a great difference in the nature and quality of clay found in various localities. In Maine the clays are light; but they are more fatty in Massachusetts and Rhode Island; the Haverstraw, Croton, and other clays on the Hudson River contain an undesirable quicksand, and the stock made from them usually produces an undesirable efflorescence upon the face of the brickwork after the bricks are laid and exposed to the weather.

The building-brick clays of Connecticut and northern New Jersey resemble those of the Hudson River; but the belt extending along the eastern portion of Pennsylvania, down through Maryland, the District of Columbia and northern Virginia, contains the finest grade of loamy clay to be found on this continent, producing a superior quality of bricks of the greatest hardness and of a cherry-red color.

Baltimore and Philadelphia lead in regard to the quality and color of the finer grades; but the ornamental bricks produced in Philadelphia are of the highest rank.

The clay commonly used in Chicago and vicinity is not only limy, but contains lime-pebbles, which render it very difficult to work. Around St. Louis the material is of a loamy nature, with veins of what are called "joint clay," which makes the bricks crack and check in drying, and split in burning. In the neighborhood of Milwaukee the clays are of a smooth, plastic nature, and owing to the slight traces of iron burn nearly white or a light cream color.

In many portions of Canada the clays are good for making building-bricks: they are especially so in the neighborhood of Amprior, Bellville, Bell's Corners, Brantford, Dundas, Glen Williams, Kincaidine, London, Penbrooke, Ramsay, and Yorkville in Ontario; and near Little River, Montreal, Quebec, and St. John, in Quebec; also at St. John and many portions of New Brunswick. The clays found near Halifax, Springfield and Woolstock, in Nova Scotia, are passably fair for making building-bricks.

Cuban and South American clays are generally poor, both as regards strength and color. In the northern part of France the clays are loamy and of a fair quality for brick-making; they are not deep, averaging only about two metres in depth; but they gradually improve in both quality and depth toward the southern portion. The Italian clays are of a superior quality for brick-making; they are naturally plastic and require no sanding.

In England, in the vicinity of London, the principal supplies of brick-clays are obtained from the alluvial deposits lying above the London clay, the blue clay not being much used for brick-making. The material employed is a kind of granitic loam, weak on the surface, and formerly gradually passing into either a strong clay or marl, or, as it is usually called, "malm," which is an earth suitable for making bricks without any additions; but now there is little natural malm to be had, as this class of clay is about exhausted. For making the best quality of bricks, which are called "malms," an artificial substitute is obtained by mixing together chalk and clay, previously reduced to a pulp in a wash-mill; this pulp is run off into shallow pits, where it remains until it has become of sufficient consistency for subsequent operations, but this process is only resorted to for the best quality of bricks, as the expense is too great for the commoner kinds.

The clays of Germany are plastic and produce a superior quality of bricks. The Dutch clinkers, or paving-bricks, have for many centuries been of the hardest kind and of a superior quality, and are manufactured principally at Moor, a village about two miles from Gouda, in South Holland, the principal brickfields being on the banks of the river Yessel, from which the chief material is derived. This is no other than the slime deposited by the river on its shores and at the bottom. The slime of the Haarlem Meer is also extensively used for this purpose, and the men who collect this in boats have long poles with a cutting circle of iron at the end, also a bag-net with which they lug up the slime; and the hard paving-bricks used for the streets in many portions of the Netherlands are made with a mixture of this slime and sand.

The London brick-makers obtain their supply of sand from the bottom of the river Thames, near Woolwich, where it is raised into boats used for that purpose.

The manner of taking material for brick-making from the bottoms of rivers and lakes with poles is not of modern origin, as will appear from the inscription which once stood upon the brick pyramid of Howara, ten leagues from Cairo; for Herodotus cites the following as at one time standing upon it, the translation reading: "Do not undervalue me by comparing me with pyramids of stone, for I am better than they, as Jove exceeds the other deities. I am made of bricks from clay brought up from the bottom of the lake, adhering to poles."

Clay of a superior quality for brick-making abounds in nearly every portion of Russia, and although brick-kilns are scattered all over the empire, the total production for 1880 was only about 760,000,000, which quantity would not more than supply the demands of the city of London in a busy building year.

By reason of the country's great wealth of timber, the production and consumption of bricks are by no means in proportion to the population of Russia. Wooden buildings are the rule and those of brick construction the exception, nor do the disastrous and too constantly recurring fires, with their attendant train of misery and suffering, seem to have much effect in enlightening the people.

Clay is the only substance in the mineral kingdom that possesses plasticity, and if sand be in large proportion in loam, or if calcareous matters predominate in marl, so as to deprive either material of plasticity, it is no longer clay.

Those clays which possess a high degree of plasticity are called long or fat, but when having but little plasticity they are termed short, meagre or lean; but in the language of the brick-yard the first is called "strong clay," and the latter "weak clay."

Mixed with considerable water, clays are more or less plastic, the degree of plasticity depending on their purity and peculiarities of composition, and, if possible, they should not be hauled into the brick-yard, dried by a scorching sun or drying wind, but in their moist and natural condition; for as they shrink and harden in drying, the labor of tempering them into brick pug is largely increased, and then it is not so good, the plastic nature of the clay being less smooth and free than before.

Oxide of iron, lime, magnesia, potash, silica, bitumen, and fragments of rock are substances that impair the plasticity of clay, and they impress upon it certain characters that are of much importance to the manufacturer, and as the plasticity of clay, or its power of yielding with water a mass that may be moulded, is of much importance in a practical point of view, and besides is interesting as a subject of scientific inquiry, we shall enlarge upon it somewhat.

Bischof explains the plasticity, and Aron the shrinking of clay as follows: Aluminum hydrate, like silicic acid, is capable of assuming the gelatinous form, in which, owing to the peculiar arrangement of the atoms, these compounds are able to take up a large quantity of water, swelling out to an extraordinary degree, and thus enveloping or binding together sandy or earthy matter in a fine state of division. On removing the water by drying, the original plastic mass shrivels up; this is termed shrinkage.

Either on drying in the air or on burning, the atoms of clay approach one another more closely, the accompanying admixed constituents also at the same time being drawn together. An increase of density and diminution of bulk thus occur.

The capacity for absorbing water in different clays varies as greatly as their plasticity, which increases with their tendency or power to crumble (possibly with the formation of aluminum hydrate). Meagre clays readily absorb water, and easily attain the desired degree of plasticity; fat clays, on the contrary, become very friable. The former become softer by working; the fat clays stiffer. Many fat clays exhibit the phenomenon technically known as "water stiffness," that is, when softened with a certain quantity of water, they have no inclination readily to absorb more. Shortness or meagreness depends more upon the presence of undisintegrated mineral particles than on that of sand; a clay rich in sand may, however, be fat; but one rich in unreduced mineral matter never can be.

By gradually drying at a temperature increasing to 266° Fahrenheit, the weighed portions of clay being placed on a glass plate, and two parallel marks cut upon it, and the distance between the marks repeatedly measured, it was found that the shrinking did not continue until the clay was quite dry, but ceased before this point was attained.

To a certain point the shrinkage exactly expressed the loss of water; at this point it suddenly stopped, just as the clay particles came into contact. Aron terms this point the "limit of shrinkage," and distinguishes the water dissipated to this point as the "water of shrinking," and that subsequently driven off as the "water of porosity." The sum of the two is total water. The cubical amounts of shrinking of a pasty mass of clay were found to be equal to the volume of water evaporated.

The proportion of pores in the dry clay is constant, that is, independent of the water originally contained. From the fact that the proportion of pores in several chemically different clays is nearly equal, it may be inferred that the smaller atoms of clay have a regular spherical shape, and this view is confirmed by microscopic observations.

In a plastic mass of clay there is thus a vast number of these little spheres, at equal distances, suspended in water. The distance

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between these particles is so small that the attraction between them is considerable, and so a system of capillary tubes is formed, in which the expulsion of water by pressure is so opposed that neither the power of attraction of the spherical atoms for one another, nor their vertical downward pressure, will permit the water to penetrate through the tubes. Plasticity commences with increase of the distance between clay atoms, and ceases when that increase has attained a certain amount. In shrinking, as water evaporates on the surface, a fresh supply is drawn from the interior of the mass, through the fine capillary tubes mentioned above, the particles approximating throughout the whole mass, in obedience to their power of attraction; and this process continues until the atoms come in contact, and then room for water is afforded only in the spaces between the particles (water of porosity). In meagre clays these fine spherical atoms envelop the irregular-shaped particles of foreign matter. On trying the effect of additions of very fine sand to some washed clay, it was found that, to a certain point, the shrinking power of the clay increased with its progressive meagreness (the water being constant), and the porosity decreased. This point is termed the "point of greatest density of the mass."

From the point of greatest density, further impoverishment diminishes the shrinkage for an equal amount of water in the pores, but increases the porosity.

The best building-brick clays are composed of silica three-fifths, alumina one-fifth, and the remaining one-fifth of iron, lime, magnesia, soda, potash and water; if there is an excess of alumina over the silica, the bricks are likely to crack in the kiln, but the presence of a proper proportion of silica remedies this, by rendering the bricks more porous, and good building-bricks have been produced when the proportion of silica reached as high as eighty-five per cent of the whole body.

When sand is added to the clay intended for common bricks, it should be clean, sharp, fusible, and not too fine; right selection and proportion insures a hard, strong, ringing brick of good size and color, but for pressed, ornamental, and other higher grades of bricks, a finer sand should be used.

To be acquainted with the chemical qualities of brick-clays is of course useful in their manipulation; but the physical tests of this class of clays are of vastly more importance. Analyses answer well for comparisons in theory; but the physical trials and results are the ones which govern their employment in industry.

The actual quantity of sand or other substances to be employed, and which are required for any clay, can only be determined by actual experimental mixing and burning. Sandy clay or loam, and calcareous clay or marl, are largely used for brick-making; but if too much lime be present, the compound becomes too fusible. Oxide of iron is always present in building-brick clays to a more or less degree, and in the process of burning it is converted into peroxide, and imparts to the whole its color, more or less deep red, according to the degree of heat which the brick receives in burning, and the amount of oxide that the clay contains.

Clays that are rich in lime or in the alkalis are not good for brick-making, and are the worst that can be used for that purpose; in fact, when a clay contains even three per cent of lime, a good quality of brick cannot possibly be made from it.

Carbonate of lime, diffused limestone and lime-pebbles, when they are present in brick-clays, are a decided hindrance to the production of even a passable quality of building-bricks, for in the kiln the limestone and lime-pebbles are converted into caustic lime, and when the bricks are used below ground, or for exposed walls, the moisture and carbonic acid, which penetrate to every part of a brick, slack the nodules of lime, the swelling causing the bricks to burst and break to pieces. Should such bricks be used for "filling in," or inside or unexposed walls, the dampness from the mortar used in laying them, and also that contained in the plastering, would, by producing the same bursting and breaking, destroy the finished face of the inside walls.

These are some of the evils which result from the badly-made bricks so freely used in Chicago, and arise from the large amount of lime-pebbles in the clay, and the neglect of finely pulverizing or thoroughly sifting the clay, which easily can be done by machinery, at but a small additional cost. Oyster-shells and iron pyrites are not uncommonly present in clays, and in order to make a durable and well-colored brick, they must be separated from the clay.

Clay taken from the seashore, or without or beneath the seawashes, or from places in or near salt formations, will not burn into good bricks. Before they receive sufficient heat to burn them into hard bricks they will fuse, warp, twist, and agglutinate together upon the surface, and in the arches of the kiln they "run" or melt quickly into unshapely masses of molten clay, and form "burs" or clinkers.

A very interesting, but unfortunately a very little understood, class of phenomena takes place when bricks made from the material which we have just considered, or those that contain small quantities of it, are exposed to certain conditions. I mean the saltpetre exudations which effloresce on the exposed faces of brick walls. But we cannot enter upon a discussion of that matter in the present article, for want of space, but hope to treat it separately at a future time.

Clays containing a large amount of carbonaceous matter naturally mixed with it are very objectionable, as bricks when made from such clays will, when wetted in the wall, pass out soluble compounds, which discolor the walls, whether they are painted or not, and plastering or stucco-work is discolored by them the same as when bricks

which have once been used in the inside of a chimney-flue, and become blackened, are re-used in new work.

It would be useless to attempt decorative work of any description upon brick walls the materials of which contain a large amount of carbonaceous matter, or if the bricks be made from the alluvial mud of the embouchures of rivers, as no possible precaution can prevent the entire destruction of the work.

The argillaceous earths that are generally suitable for the manufacture of building-bricks may be divided into three classes, viz.:—

1. Loams, which are light, sandy clays.
2. Pure clays, principally composed of alumina and silica.
3. Marls, which are earths that contain an unusual proportion of lime.

It is not often that earths are found that are suitable *per se* for brick-making; they generally require mixing with something else, as the loams are usually so open that, in order to bind the earth, a flux in the nature of lime has to be added, and if it happens that a loam requires no mixing, the difference in the working of adjacent strata in the same field is so great that in order to produce regularity in the size and color of the bricks, it is necessary to mix and temper two or three different kinds together, and for the same reason, and to prevent "checking," the pure clays also require mixing with some milder earth, loam or sand.

In working marls, great trouble is experienced from skerry or impure limestone, which abounds in marl; for should a very small piece be allowed to remain in the clay, it is certain to destroy the brick into which it finds its way. To obviate these bad results, heavy iron rolls are used to pulverize the marls and the limestone found in them.

No class of clay freshly taken from its bed is in a condition to be at once moulded into tempered bricks, even if it be of suitable composition, and it should first be exposed to the action of frost, the water diffused through the substance expanding by freezing, and breaking it in every direction.

The longer the exposure is continued, the more effectually is the clay reduced, and the more easily tempered and moulded. But the digging of clay in the autumn is not always attended to; but to neglect it, however, is to run a great risk of having bricks made by the hand-process unsound, as well as faulty in shape. The entire process of brick-making by the hand-process may be classed under six heads; viz., 1, preparation of the clay; 2, tempering; 3, moulding; 4, drying; 5, setting the bricks in the kiln; 6, burning.

The preparation of the clay commences in the autumn, immediately after the other work of the brick-yard ceases. The vegetable soil is stripped from the top of the clay and carried to the level places where the bricks are moulded, called the "floors," and uniformly spread over them to the depth of two inches, and by the return of the brick-making season, about the middle of April, the soil has become solidly packed. The face of the clay-bank having been "trimmed" so as to present a vertical face, it is then measured off in "benches," that is, in sections usually sixteen feet long, and running the height of the clay-bank. In yards making bricks by the hand-process, all work is done by the task or contract, and the clay is dug by "the thousand," and the usual price is fifteen cents for each thousand of clay dug, "one thousand" meaning clay sufficient to make one thousand bricks.

In computing clay it is estimated that there is required sixty-four cubic feet of clay to make one thousand bricks; but it does not require in fact more than fifty cubic feet of clay, on an average, to make one thousand bricks; sixty-four cubic feet to the thousand was about the quantity when our bricks were made of the same size as those of England.

Benches of clay are laid off sixteen feet long, and four feet wide, every foot in height counting as one thousand of clay. In the United States the common manner of digging clay is to undermine the face of the bank of clay, leaving small pillars called "legs," one at each corner, and one in the middle; chambers are next cut into the bank at each corner, the legs of clay are next picked out, a sharp watch being kept by the laborer to see that the bank of clay does not fall unawares. If it should not fall while the legs of clay are being picked out, the laborer gets on top of the bank, and driving a crow-bar into the clay, on a line in several places, about four feet back from the face of the bank, "throws" the bench of clay. The material is then picked into lumps and thrown back with the hands, the fine clay being thrown back with the shovel; and the face of the bank is picked regularly, and the bottom leveled, after which the laborer is ready for another "fall."

While the clay is being dug, strips of clay about eight inches wide are left between the separate benches, they are not dug, and are called "combingings;" and if the laborers are not very trustworthy there will be more "combingings" than dug clay.

The second step is that of tempering the clay. To temper clay means to thoroughly mix it, and prepare it for the use of the moulder, who must have it in a condition not too soft, nor yet too hard; but in a suitable state of plasticity to be easily and solidly moulded into bricks.

The ancient mode of tempering was by treading the clay by the feet of men or beasts; but clay is now tempered by one of three ways: the first being by hand, the second by the pug-mill, and the third in a ring-pit. The hand-method of tempering is often employed for the manufacture of pressed or front bricks, and sometimes in country places it is employed in the production of common bricks.

The man who reduces the clay to a proper state of plasticity is called the temperer, and in the hand-method of tempering it is his place to throw the clay into a pile the day previous to its being used; and while he is spading the clay into a pile, he at the same time throws water upon it; this pile of clay, when finished for common bricks, contains material sufficient to make 2,333 bricks, and is called "a soak heap."

The next morning, before the moulder is ready to commence work, the temperer pulls a part of the "soak heap" down with a hoe; the portion of the clay thrown down is wetted with water, and turned over many times with a spade. Having done this for a while, he next trims the small pile of clay into shape, and commences to cut through it with an instrument called a "slasher," and any stone that he may strike with the slasher is picked out of the clay. After "cutting and hacking" the clay for a time in this way, it is again turned over with the spade, after which it is ready for the moulder. This operation is continued until all the clay in the "soak heap" is worked out, after which the temperer throws up another similar pile of clay which is allowed to soak through the night.

When hand temperers are employed, in addition to the work just described, they are required to turn up ten rows of the moulded bricks on edge, and, after they are sufficiently hard to wheel and pack them in the drying-shed. The common bricks made from hand-tempered clay are not so good as when made by the other methods of tempering as the clay is not packed together by any pressure in hand-tempering; and the bricks after being burned, are very open or porous. When the process is used for making pressed-bricks, the result is different, as the bricks after being moulded are pressed very solidly in a hand-press.

The next process for tempering clay is by the pug-mill, and to explain this method, I shall here have to explain the organization of the "moulding gangs" in yards producing bricks by the hand-process.

Each gang is composed of one moulder, one wheeler, and one boy called an off-bearer. The moulder shapes the bricks in thin cast-iron moulds from the clay brought to him by the wheeler, who obtains it from an opening in the bottom of the cylinder as it issues from the pug-mill; the boy "off-bears" or carries the bricks from the moulding table and lays them in rows on the ground called the "floor," where they are left to dry.

The pug-mill is an iron shaft with knives of the same material about eighteen inches long, two-and-one-half inches wide, and three-eighths of an inch thick, extending from the shaft in four directions, but so placed that one does not follow directly under the other. To trace the knives around the shaft would be like following the thread of a screw. At the bottom of this shaft, and all on the same level following consecutively are four broad curved pieces of iron called sweeps, pressers, or pushers, which terms are synonymous, and their use is to force the tempered clay through an opening near the bottom, in the side of the cylinder or box inclosing the pug-mill.

The pug-mill and cylinder enclosing it are so placed that the pivot or spindle at the bottom of the mill will be in the centre of the diameter of a semi-circular pit, which to contain clay for three "gangs," measures eight feet from the centre of the pug-mill shaft to the face of the pit, which is four feet deep. This semi-circular pit is usually walled around with bricks, which should be hard burned, and the bottom formed of two-inch oak planks, cut wedge shape.

Directly in front of the pug-mill there is a fan-shaped hole or pit, which allows the wheeler to cut the clay away with a spade as it issues from the hole in the side of the cylinder at the bottom, inclosing the mill.

If the pug-mill is turned by a horse, it is usual, if the clay bank is too far away to be conveniently filled with wheelbarrows, to harness the animal to a cart, and haul the clay to fill the pit, after the work of grinding has been completed, which usually requires about six hours. A long pole fixed in a yoke in the top of the shaft is the leverage by which the pug-mill is turned.

The pit around the pug-mill, when the clay is ground by horse-power, holds usually material sufficient to make 7,000 bricks; after the pit is filled it is the duty of the temperer to let sufficient water to the clay to soak it.

The third manner of tempering clay is by the ring-pits, which are circular, and about twenty feet in diameter, two feet in depth, and they hold clay sufficient to make 14,000 bricks; they are cased around with hard-burned bricks, and the bottom is usually covered with oak planks, cut wedge-shape.

In the centre of the pit there is a pedestal firmly planted, upon which the machinery that operates the tempering-wheel is placed. Ring-pits are operated both by horse and steam-power. There is a gearing of wheels so arranged as gradually to push the tempering-wheel from the centre to the outer edge of the pit, while the wheel is revolving around the circle, and when it reaches the outer edge to again draw it towards the centre.

After the clay is tempered in ring-pits, it is covered with large battened panels, made of light pine wood nailed together, the object being to keep the clay moist, and prevent it from drying on the top before it is used.

Laborers in the brickyards like to have the clay tempered in ring-pits, as they can go in separate gangs at any time, and commence work without waiting for a complement of gangs, which has to be done when pug-mills are used for tempering the clay. It is not unusual for brickyard gangs in the hot season of the year to commence their task at about twelve o'clock at night, when the moon gives suf-

ficient light, and have their day's work of moulding done before seven o'clock in the morning; the ring-pits facilitate this more than does any other mode of tempering the clay.

The third step in the process of producing hand-made bricks is that of moulding the clay after it has been tempered, and this is performed in most of the Eastern States in light cast-iron boxes, having both the top and bottom open and unobstructed, and these moulds contain one brick, and are commonly slightly more than twice as long as they are wide.

The laborer, called the wheeler, brings the tempered clay to the moulder, and piles it upon a wooden stand in front of him. The stand, which is called a "moulding table" is about four feet square, and made in height to suit the moulder.

On the left-hand corner of the table there is securely screwed a piece of cast-iron, one-half inch thick, nine inches wide, twelve inches long, and turned up at one end and down at the other; this iron presents a smooth, plain surface for the bottom of the mould, and it is called the "moulding cleat."

The moulder in forming a brick pulls down on the table with both hands a lump of the tempered clay, then takes a handful of moulding sand in his right hand, from a tub close by, throws the sand over the lump of clay, works the clay and sand into a peculiar shape called the "warp," and dashes it with great force down into the mould which rests upon the moulding cleat, using both hands in the operation. Having done this and patted the clay into the corners of the mould, the moulder then takes an instrument somewhat resembling a plasterer's trowel, and called a plane, which he dips in water, and afterwards strikes off the clay piled above the top of the mould.

The boy called an off-bearer now takes the mould and the enclosed bricks, lays the brick on the "floor," scrapes the inside, and particularly the corners of the mould with a knife suspended by a string from his side. The off-bearer places the cleaned brick-mould in a tub of sand convenient to the moulder, and by the time another brick is made, he is ready to place it alongside of the other on the "floor." This is continued until there are fifty-eight bricks in the row, and the rows are continued until the number forty; then part of a row containing thirteen bricks is made, which completes the "task" of moulding. Each gang, for a day's work, produces 2,333 bricks, three gangs 7,000, six gangs 14,000 bricks, and so on.

The art of perfect moulding by hand consists in filling uniformly every portion of the brick-mould, and in so manipulating the clay and moulding-sand thrown into it, that the bricks shall contain no cracks or "sand flaw," and in so "planing" off the clay from the top of the mould that neither hollow nor swelling called a "belly," is made on the flat part of the brick. The usual time for a good gang to accomplish a day's task of moulding is from five to five and one-half hours.

A difference in the thickness of hand-made bricks is often caused by the wearing of the moulds, new moulds generally being used in the spring of the year, which generally wear thinner, until in the autumn they have lost from one-eighth to three-sixteenths of an inch in depth, and bricks made in the fall of the year being consequently correspondingly thinner than those made in the spring. The loss of one-eighth of an inch in the thickness of a brick may appear to be a very small affair; but is not so insignificant as it may at first sight seem. To lose one-eighth of an inch in one course of bricks in its thickness, is to lose one inch in height in every eight courses, or one foot in every twenty feet of elevation. In a medium-sized house, say twenty-five feet front by sixty feet deep, and sixty feet in height from foundation, to finish the walls being one brick and one-half in thickness, which, with chimneys and ordinary inside walls would give about two hundred lineal feet, the loss would be about six hundred cubic feet of brickwork, or more than 10,000 bricks. The loss would also be in laying that extra quantity of bricks, and as the bricks and laying would cost in the neighborhood of, say \$15 per thousand, a needless loss of about \$150 would be inflicted either upon the owner or the builder, which would depend upon the circumstances governing the case.

This fact should be remembered, and engineers and architects having in charge large undertakings requiring a long period for completion, and great quantities of bricks, should expressly require that all moulds that are subjected to loss of depth, whether they be hand moulds or machine moulds, shall be renewed not less than three times in each season. This should be done for the protection of their clients, if they should happen to be furnishing the bricks, and if not, then for the good of the contractor; and also for the purpose of keeping the courses level and uniform throughout the work.

The fourth step in the process of manufacturing hand-made bricks is that of drying, and the first step in this operation is to turn those upon edge that were made the day previous. If there be no indications of rain the bricks are "turned up" early in the morning, and allowed to stand upon edge, exposed to the air and sun, until about four o'clock in the afternoon, when each member of the moulding gang "takes in his share," and carefully hacks them in the drying shed; usually there are each day hacked about eight courses high on edge, and the hacks kept separate to allow circulation of air. There is a space left between the bricks of one-half inch, and a "head" or pier is built at each corner of the "rows."

After remaining in the drying sheds for about two or three weeks, the bricks are generally in condition for setting in the kiln; but during rainy seasons it often requires a longer period to thus naturally dry the bricks. The fifth step is that of setting the dried bricks in

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the kiln preparatory to being burned, and this work is generally done by a force of five men, called the "setting gang," which is composed of one foreman called the "setter," and four men called the "wheelers and tossers."

A day's work of this gang is usually to take 20,000 bricks out of the drying sheds, and wheel them to the setter, who places them in the kiln in a proper manner for burning.

In "setting out a kiln" the first bricks are set in the back arch, and arch bricks in setting are divided into four classes, viz.: the straight courses, pillar, bangers, and skintle bricks, the names depending upon the position which they occupy in the arch.

The arch is generally fourteen courses high, the bricks being set on edge, and one-half inch apart; the bottom eight courses of the arch are usually called the "straight courses," on the top of which are placed the projecting six courses forming the arch proper, and which are called the "over-hangers."

The "pillar" bricks are the ones between the straight courses, and the "skintles" are bricks set diagonally in order to tie the "over-hangers" together. The row of bricks first set on the top of the arch is called the "tie course," and the fourteen courses, including the "tie course" first set on the top of the arch is called the "lower bench," and the next fourteen courses, which usually finish the height of the kiln, are called the "upper bench." "Forty-two high" is the way that the height of a kiln arranged as has been described is usually spoken of.

The bricks are now ready to be burned, or converted from a perishable into an imperishable substance, and this completes the sixth or final step in their manufacture.

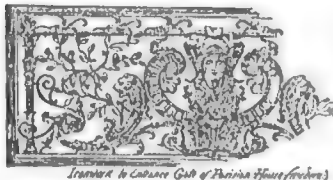
There are various plans for burning bricks, such as hot-air, and combinations of gas and gaseous fuels, super-heated steam, and other devices such as annular kilns, etc., which although they are all good require a highly scientific knowledge of heat, its mechanical action, and many other things.

The old-fashioned open kiln is the kind commonly employed, and in these the bricks are burned either by wood or coal. The usual time for burning a kiln containing from 150,000 to 500,000 common bricks is about six days, and the period allowed for the kiln to cool is about the same length of time.

CHARLES T. DAVIS.

THE REYNOLDS MEMORIAL IN PHILADELPHIA.

PHILADELPHIA, September 18, 1884.



Ironwork in Culture Club of America House (architect)

THE equestrian statue of General John F. Reynolds, erected by an association representing several departments of the Grand Army of the Republic, and aided very largely by the generosity of Mr. Joseph E. Temple, was unveiled and presented to the city with appropriate ceremonies to-day.

The statue is of bronze, is about twelve feet high, and rests upon a plain pedestal of polished granite of the same height. It stands at the left of the northern entrance to the new city-hall. It is the work of Mr. John Rogers, with whose work on a smaller scale the American public is familiar already, and was cast by Bureau Bros., of this city.

The occasion is one which invites to reflection on one or two questions, which assume considerable weight whenever a work of this importance is undertaken — whenever, in fact, the significance of a work of art which makes any serious claim to being regarded as ornamental, is considered in the light of the purpose which it embodies, as distinguished from the peculiar merit of the work itself.

The disparity between the artistic value of this statue and the feeling on the part of the community which has led to its erection, is so pronounced that one asks himself again how much it matters, after all, whether the work be good or bad, if only the spirit in which it is offered be the true and generous one.

General Reynolds is to Philadelphia and to Pennsylvania an ideal of soldierly and gentlemanly worth. He shares with General Meade the honors of Gettysburg, and his memory is perhaps associated even more closely with that field than that of his companion, from the fact that he lost his life upon it.

The city and State which he honored so much, the generation of men which knew the extent of the service he rendered, and the soldiers who followed him, unite to erect a memorial that shall speak to those who come after them of the esteem in which his memory is held. How much, asks the critic who wants to be good-natured, does it matter whether they erect an eyesore or not? How far is the idea embodied to be accepted in place of a tribute fittingly expressed?

The stammered and artless eulogy is sometimes the most eloquent of all. Shall not the faults of the sculptor also be forgiven in the same spirit? How far does the protest against art for art's sake merely, which some of us think cannot be made too strongly, mean something like this? For my own part I think that no better opportunity than the present to examine these questions is likely to occur for many a day.

As far as meeting the requirements of a work of great art is concerned, the statue in question is not much better than an eyesore; there will hardly be much discussion on that point. The conception is a school-boy's, the lines are awkward and angular, and from nearly every point of view from which it is possible to see the group, the mass is so utterly wanting in dignity as to be almost ridiculous. It is not the sculptor's fault, perhaps, that the statue is elevated on a pedestal which is too high for a work intended to be seen so near as this must always be; but it is somebody's fault, all the same, and is none the less to be noted because it is the commonest kind of a mistake in the treatment of equestrian statues.

The figure of the man is too small in proportion to that of the horse, and the loss of dignity which is apparent from this cause is still more emphasized by the unfortunate repetition of the lines of the rider's body by those of the neck of the horse. The head and the raised fore-foot of the latter are also very weak, and the surface modelling throughout is spiritless in the extreme.

It is to be hoped that the likeness of the General is good. I cannot answer for that, but have no doubt it is well enough, and only know that the head is commonplace, and is badly set on a body for the woodenness of whose treatment the modern dress, exacting as it is, cannot be held responsible.

How far are its artistic or inartistic faults to be forgiven or ignored, in praising the spirit which has raised it? For my own part, I think they ought all to be forgiven frankly, if the statue as it stands — that is, if it were fairly representative of American art — could be fairly taken as an example of what we in America can do at the present time. For after all, that is what the work ought to stand for, and we ought to be willing to have those who come after us judge our tastes and our attainments by just such monuments as this is. They will do so, whether we are willing or not.

The pity is that we have taken inferior work, when we might have done so much better. The thing to be sorry for is that in the selection of an artist for this important work another blunder has been added to a list that was quite long enough before. For there are sculptors in America who would have done much better than this, if they had been given the opportunity, and everybody who loves the arts has a right to complain when their claims are disregarded, and the honors and the plums go to inferior men. That is all. Let us set up the statue by all means. No form of memorial is so effective, moralize about it and hunt for substitutes all we like. Poor ones are better than none, and often have an interest that is quite pathetic, when they are characteristic and representative of those who erect them. Only let them be the best we can get, and don't let each new commission be another instance of failure to recognize ability when we see it, and of contented acceptance of mediocrity, when excellence is within our reach.

L. W. MILLER.

THE ILLUSTRATIONS.

LAWRENCE BUILDING, NEW YORK, N. Y.

THIS building, which is just receiving the finishing touches, is situated on the north-west corner of Leonard St. and West Broadway. The materials used, and the system of construction, give it a certain interest. The exterior is faced throughout with light buff brick, from Perth Amboy, and these, in order to incorporate them thoroughly into the piers, are bonded with courses of headers about once in fifteen inches.

The enrichments of the cornices, string-courses and spandrels, and the door and window dressings, are of terra-cotta, made from the same clay as the bricks, and matching them in color. Stone is used only in the window-sills and copings. The interior of the building exhibits the so-called "mill-construction" of an exceptionally solid type. In order to gain as much light as possible, the girders were spaced nine feet four inches from centre to centre, and the span being considerable, it was found necessary to make them 16 x 20 inches in section, to sustain with perfect safety the estimated load of 200 pounds per square foot. The timbers were obtained of these dimensions from Georgia, without much difficulty, but they are perhaps the heaviest floor beams in New York. The weight of the floors being thus concentrated at points somewhat widely spaced, the piers supporting the girders, although calculated throughout for a load of fifteen tons to the square foot, including the facing, were necessarily somewhat cumbersome, especially in the lower stories, and the plan was adopted of setting the mass of brickwork which composes them with its longer diameter toward the street, so as to give as much window space as possible between them. Thus, in the basement, the main piers are two feet four inches on the face by five feet in depth, the depth diminishing by four-inch offsets in each story above. This arrangement of piers gives a series of shallow bays on the street side, but enables the openings to be made much larger than is usual in brick buildings, without detracting in the least from the solidity of the structure; and the bays themselves are utilized in the first story for bulkheads, which give light and ventilation to the basement, and a place for displaying goods on top, and in the upper stories are found convenient for placing radiators and other furniture. The planking over the girders is of spliced spruce, four inches thick, and this again is finished with an upper flooring of one-inch narrow maple. The whole of the surface of planking and girders is wire-lathed and plastered. Both elevators run in brick shafts, which are carried up high

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

- 366,040. DEVICE FOR OPERATING ELEVATOR. — Cyrus W. Baldwin, Chicago, Ill.
 366,052. BENCH-CLAMP. — John Birch, Dayton, O.
 366,053. HYDRAULIC MANS FOR GAS-APPARATUS. — Arthur E. Bonadoni, Macon, Ga.
 366,072. CEMENT ATTACHMENT FOR WATER-CLOSETS. — James Foley, Brooklyn, N. Y.
 366,078. FIRE-ESCAPE. — Karl Hubner, Paterson, N. J.
 366,079. DOOR-HANGER. — Elmer N. Hutchins, Lawrence, Mass.
 366,084. ELECTRIC ALARM AND CALL-BELL SYSTEM FOR HOTELS, ETC. — Warren T. Kellogg, Cohoes, N. Y.
 366,092. WATER-CLOSET. — Owen J. McLean, Chicago, Ill.
 366,123. CALIPERS. — C. Wilhelm Wessman, Chicago, Ill.
 366,128. SAFETY-ATTACHMENT FOR ELEVATORS. — Otto Charles Berchold and Emil I. Lauter, Cleveland, O.
 366,131. PORTABLE DERRICK. — Donald Crane, Woodland, Cal.
 366,137. BRICK. — Jean Darrigan, Capoties, France.
 366,140. FIRE-ESCAPE. — Jacob Haeg, Garfield, Kans.
 366,151. HAND-GRABBER FOR FIRE-EXTINGUISHERS. — Henry H. Harden, Chicago, Ill.
 366,156. ELEVATOR. — Charles W. Hayes, Orange, N. J.
 366,164-171. COMPOUND FAUCET. — Frederick W. Mosley, Fountley, Vt.
 366,175. HOT-AIR GENERATOR FOR FIREPLACES. — Joseph H. Roberts, Toronto, O.
 366,180. REAMER. — Thomas H. Thompson, Hartford, Conn.
 366,195. BRICK-KILN. — Stephen W. Uudorhill, Croton Point, N. Y.
 366,201-202. ALARM-APPARATUS FOR AUTOMATIC FIRE-EXTINGUISHERS. — Charles C. Worthington, Irvington, N. Y.
 366,200. BENCH-STOP. — John Adams, Hancock, N. Y.
 366,218. FIRE-GRATE. — Edward Card, Pawtucket, R. I.
 366,235. FIRE-ESCAPE. — William A. Fries, Clifton Heights, Pa.
 366,237. SCREW-DRIVER. — Willis B. Gilmore, Minneapolis, Minn.
 366,240. SASH-FASTENER. — Frank W. Sawtelle, Dedham, and Jan. T. Williams, Hyde Park, Mass.
 366,316. AUTOMATIC FIRE-EXTINGUISHING. — Joseph H. Brown, Bridgeport, Conn.
 366,320. PAINT-TO-GRIND FOR ROOFS, ETC. — Edward Clark, Tiffin, Ohio.
 366,331. SASH-FASTENER. — Horace L. Heaton, Indianapolis, Ind.
 366,332-333. PNEUMATIC DOOR-CHECK. — Stephen Porter, Boston, Mass.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report twenty-seven permits have been granted, the more important of which are the following:—
 Wm. Collett, 3 three-story brick buildings (squares), 33 Lafayette Ave., w. of Fremont St.
 J. L. Bowen, 5 two-story brick buildings, e. s. Cross St., w. of Washington Ave.
 E. J. McMullen, 3 three-story brick buildings, n. s. Lundy St., commencing e. cor. Stockton Alley.
 A. L. Gorter, 6 three-story brick buildings, n. s. Robert St., commencing e. cor. McCall St.
 St. James Home for Boys, four-story brick building, n. cor. High and Low Sts.
 Church of the Star of the Sea, two-story brick building, 43 x 27, n. cor. Battery Ave. and Clement St.
 Eliza Hahn, 2 three-story brick buildings (squares), e. s. Kutaw Pl., commencing e. cor. Presbiterian St.
 Sheep Butchers' and Wool-pulling Association No. 2, two-story brick buildings, e. s. Pennsylvania Ave., between Laurent and Robert Sts.
 Geo. C. Herchman, 13 two-story brick buildings, e. s. Middle St., commencing e. cor. Emor St.
 Hy. Schaumburg, 3 two-story brick buildings, commencing e. cor. Street St. and Street Alley.
 E. B. Blanch, 5 two-story brick buildings, commencing e. cor. Broadway and Hoffman St.
 J. H. Gable, 5 three-story brick buildings, e. s. Wood-jer Alley, n. of Cemetery Lane.

Brooklyn.

BUILDING PERMITS.—Dean St., s. s. 100' w. Vanderbilt Ave., three-story brick tenement, gravel roof; cost, \$4,000; owner, Thos. K. Farrell, 611 Dean St.; architect, I. D. Reynolds.
 140th St., w. s. 40' n. Dean St., three-story brick store and tenement, flat and gravel roof; cost, \$2,000; owner, Wm. C. Marvin, 140th Pl.; architect, Wm. V. Williamson.
 Second St., w. s. 10' n. Thirty-ninth St., one-story brick manufactory, board roof; cost, about \$3,000; owner, Phoenix Chemical Co., 87 Maiden Lane, New

York; architect, Samuel Bennett; builders, Carlin & Son and John H. O'Rourke.
 Sixth St., Drin, n. s. 318' w. Second Ave., three-story frame manufactory, gravel roof; cost, \$3,000; owner, C. D. Wolcott, 55 Pearl St.; architect, M. A. Case; builder, Geo. H. Stone.
 Sixth Ave., w. s. 21' n. Carroll St., 3 two-story brownstone dwellings, tin roof; cost, each, \$4,000; owner and builder, Jas. H. Alexander, 108 Pacific Ave., Jersey City; architect, A. Hill.
 Jefferson St., n. s. 100' w. Throop Ave., 3 two-story brownstone dwellings, tin roofs; cost, each, \$5,000; owner and builder, Wm. Reynolds, 400 Jefferson St.; architect, I. D. Reynolds.
 Gates Ave., e. s. cor. Franklin Ave., four-story brick flat, gravel roof, wooden cornice; cost, \$14,000; owner and builder, Jas. H. Alexander, 108 Pacific Ave., Jersey City; architect, A. Hill.
 Nostrand Ave., s. s. cor. Lafayette Ave., three-story brick and terra-cotta store and flat; cost, \$9,000; owner, Mrs. M. E. Kohlman, Nostrand Ave., Kosciuszko St.; architect, Parfit Bros.; builders, F. Hall & Serivan and E. Hendrickson.
 Meserole St., s. s. 175' n. Bushwick Ave., four-story brick tenement, tin roof; cost, \$12,000; owner, Otto Huber, on premises; architect, O. Stoll; builder, — Melhuide.
 Jefferson St., s. s. 300' e. Central Ave., three-story frame brick-filled tenement, tin roof; cost, \$4,200; owner, Annie M. Armendinger, 83 Melrose St.; architect, Th. Engelhardt; builder, J. Armendinger.
 South Oxford St., e. s. 392' n. Atlantic Ave., three-story brick and brownstone dwellings, tin roof; cost, \$12,000; owner, Wm. Bradley, 218 Sackett St.; architect, Parfit Bros.
 Tenth St., n. w. cor. Fourth Ave., three-story brick store and dwell., tin roof; cost, \$6,000; owners, Asap & Buckley, 140 Sixteenth St. and 71 Waverly Ave.; architect, W. M. Coats.
 Haves St., No. 262, three-story and basement brownstone dwell., tin roof; cost, \$6,000; owner, John L. Davis; architects, W. S. T. Lamb, Jr.; carpenter, not selected.
 Halsey St., Nos. 142 and 144, 2 three-story brownstone dwellings, tin roofs; cost, each, \$7,000; owner, etc., John S. Frost, 568 Franklin Ave.
 Wyckoff St., No. 392, four-story brick tenement, gravel roof; cost, \$5,000; owner and builder, John D. Anderson, 225 Raymond St.; architect, Geo. W. Anderson.
 Tenth St., n. s. 20' n. w. Fourth Ave., 6 two-story brick dwellings, tin roofs, wooden cornice; cost, each, \$4,000; owners, Andy & Buckley, 118 Sixteenth St. and 71 Waverly Ave.; architect, W. M. Coats.
 Bedford Ave., w. s. 80' n. Tenth St., three-story brownstone dwell., tin roof; cost, \$35,000; owner, Joseph F. Knapp, cor. Bedford and Tenth St.; architect, Arthur Crooks; builders, W. S. T. Lamb, Jr., and Smith & Bull.
 Clifton St., n. s. 90' e. Bedford Ave., 4 two-and-one-half-story brownstone dwellings, tin roofs; cost, each, \$4,000; owner, E. T. Rider, 124 Quinby St.; architect, Amel Hill; builder, Wm. J. Rider.
 Broadway, n. e. cor. Park St., three-story brick store and tenement, tin roof; cost, \$9,000; owners and builders, Jho. L. Gans and A. Volta, 24 Jefferson St.; architect, John Herr.
 Sackett St., n. s. 40' e. Court St., three-story brick store and dwell., tin roof; cost, \$3,000; owner, Jas. Calvers, cor. Second Pl. and Court St.; architect and carpenter, Wm. Wilson; mason, Thos. B. Kutan.
 Jefferson St., s. s. 250' w. Hamburg Ave., three-story frame brick-filled tenement, tin roof; cost, \$1,000; owner, Annie M. Armendinger, 83 Melrose St.; architect, Henry Vollweiler; builder, Jacob Armendinger.
 Locust St., n. s. 257' e. Broadway, three-story frame brick-filled store and tenement, tin roof; cost, \$1,000; owner and builder, Geo. Loefler, 76 Jefferson St.; architect, Henry Vollweiler.
 Magnolia St., n. s. 60' e. Irving Ave., three-story frame brick-filled tenement, tin roof; cost, \$1,000; owner, etc., Jas. Williamson, 676 Gates Ave.
 Union St., n. s. 212' e. Seventh Ave., 2 three-story brownstone dwellings, tin roofs; cost, each, \$10,000; owner, etc., John Magellan, 26 Berkeley Pl.
 Bainbridge St., n. s. 178' w. Kent Ave., 4 two-story brick dwellings, tin roofs; cost, each, \$3,500; owner, Kate Acor, 177 Bainbridge St.; architect and builder, C. Linken.
 Columbia St., w. s. 150' e. Hamilton Ave., three-story brick store and tenement, tin roof; cost, \$5,000; owners, architects and builders, M. Gibbons & Son, 65 Rappelyea St.
 Ruerim St., No. 159, n. s. 150' e. Graham Ave., four-story frame brick-filled tenement, flat tin roof; cost, \$6,000; owner, Barbara Wischerich, 67 Tenthman St.; architect, Th. Engelhardt; builder, Jacob Armendinger.
 Ralph Ave., w. s. 18' s. Bainbridge St., 4 three-story frame brick-filled tenements, flat and gravel roof; cost, about \$2,500 each; owner, Elizabeth Phelan, 367 Hart St.; architect, F. F. Thomas.
 Fourth Ave., n. w. cor. Forty-sixth St., three-story frame brick-filled tenement, flat tin roof; cost, \$2,000; owner and architect, W. A. Fries, 291 Forty-fourth St.
 Rappelyea St., n. s. 150' e. Hamilton Ave., four-story brick tenement, tin roof; cost, \$5,000; owner, Mr. Keegan, 61 Rappelyea St.; architect, Mr. Hayler; builders, M. Gibbons & Son.
ALTERATIONS.—River St., w. s. between South First and South Second Sts., add one story to a one-story building, gravel roof; cost, \$7,000; owner, architect and carpenter, Brooklyn Sugar Refining Co., First St., cor. South Second St.; mason, S. J. Burrows.

Chicago.

BUILDING PERMITS.—T. Dowling, two-story dwell., 2609 Indiana Ave.; cost, \$1,500; architect, A. J. Halberg.
 E. Hahn, 2 one-and-one-half-story cottages, 431-438 Idaho St.; cost, \$3,000; builders, G. Lehmann & Co.
 Mrs. A. Portman, two-story dwell., 61 West Superior St.; cost, \$1,000; architect, C. O. Hanson; builder, N. P. Laburg.
 A. Fields, 2 three-story dwellings, 102 and 103 Butterfield St.; cost, \$8,000; architect, F. Doerr.

Mrs. M. Farratt, 2 two-story dwellings, 227 and 229 Wilmet Ave.; cost, \$5,000 each; architect, H. W. Little, 2 one-story cottages, 44-50 Whipple St.; cost, \$2,500.
 Mrs. S. C. Congdon, 2 two-story dwellings, 3514 and 3516 Forest Ave.; cost, \$5,000.
 Howling & Crowhurst, 3 one-story cottages 609-613 Thirty-second St.; cost, \$2,500.
 A. Schuize, two-story addition to dwell., 568 Centre Ave.; cost, \$4,000; builder, A. Louis.
 H. Rosco, two-story store, 881 Blue Island Ave.; cost, \$1,000; builder, A. Louis.
 A. Cerny, three-story dwell., Maxwell St.; cost, \$5,000.
 F. Hahn, two-story dwell., 481 South Wood St.; cost, \$4,000.
 J. S. Iverson, 2 two-story dwellings, 3515 and 3517 Wabash Ave.; cost, \$8,000; architect, S. M. Randolph.
 T. Orhl, two-story dwell., 2707 Wentworth Ave.; cost, \$3,000.
 T. Reath, two-story dwell., 803 South Oakley Ave.; cost, \$3,000.
 J. Ludwig, 2 two-story stores and dwellings, 3230 and 3232 Laurel St.; cost, \$7,000; architect, J. Frank; builder, J. Lauch.
 M. Rathgen, two-story dwell., 90 Evergreen Ave.; cost, \$3,000.
 F. Plachka, three-story store and dwell., 99 Blue Island Ave.; cost, \$7,000.
 D. Sullivan, two-story dwell., Lincoln Pl.; cost, \$3,000.
 A. C. Brackebush & Co., two-story barn, 39 Congress Park; cost, \$2,000; architect and builder, Geo. Hunkley.
 W. T. Guss, two-story dwell., 504 West Congress St.; cost, \$3,000.
 J. H. Overs, three-story dwell., 77 to 83 Pine St.; cost, \$17,000; architects, Thomas & Rodger; builder, C. Mues.
 M. Morgan, two-story dwell., 141 Linsale Ave.; cost, \$6,000; architect, J. Otto.
 J. A. Barbier, 5 three-story dwellings, 215 to 219 Centre Ave.; cost, \$22,000; architect, N. S. Patton.
 J. Halliwell, two-story dwell., 238 South Tuley St.; architect, J. J. Egan; builder, M. J. Benson; cost, \$4,000.
 H. Hunter, three-story store and flats, 3540 and 3542 State St.; cost, \$16,000; builders, McMillan Bros.
 J. Kirkeby, three-story store and dwell., 1020 Milwaukee Ave.; cost, \$10,000.
 Wm. W. Hansburg, three-story store and dwell., 207 and 209 Mybourn Ave.; cost, \$12,000.
 Thos. Brown, three-story store and dwell., 185 West Chicago Ave.; cost, \$7,000; architect, J. J. Matherson; builder, B. Olson.
 Mrs. E. J. Hansson, two-story dwell., 835 Shuber St.; cost, \$3,000.
 J. J. Brown, three-story livery-stable, 140 West Madison St.; cost, \$3,000.
 Tarrant & Ramsay, one-story foundry, 50-56 Indiana St.; cost, \$4,200.
 V. Topinka, three-story store and dwell., 175 West Twelfth St.; cost, \$2,000; architect and builder, G. M. Krulover.
 P. Cure, two-story flats, 3427 Dearborn St.; cost, \$1,000.
 S. Wilken, two-story store and dwell., 191 Ambrose St.; cost, \$4,200.
 T. A. Shaw, two-story dwell., 2124 California Ave.; cost, \$18,000; architects, Cobb & Frost; builders, Fox & Hinds.
 A. Thule, two-story dwell., 493 Marshfield Ave.; cost, \$4,000; architect, P. W. Ruel.
 J. Brunel, two-story dwell., 12 West Ohio St.; cost, \$2,500; architect, J. Otto; builder, A. Fagerlund.
 J. J. Burton, 2 two-story dwellings, 130 and 141 West Jackson St.; cost, \$7,000.
 H. Miller, two-story dwell., 112 Evergreen St.; cost, \$3,000.
 J. Back, three-story dwell., 682 North Park Ave.; cost, \$3,000; architect, A. F. Boos.
 P. Murphy, two-story dwellings, 612 Loomis Ave.; cost, \$2,700; builder, J. Wittner.
 F. Shawik, two-story dwell., 512 Ashland Ave.; cost, \$3,000; architect, Wilson; builders, Kreig & Demuth.

New York.

HOUSES.—Anthony Mosbray proposes to build on the s. s. of Eighteenth St., bet. Fifth and Madison Ave., 3 four-story brick and brownstone residences, 25 x 60' each, to cost about \$100,000; Messrs. McElfrick Son & De Bau have the plans on hand.
FACTORY.—Messrs. Sypher & Co. will build a brick and granite factory, 67 x 90', on the s. s. of Forty-eighth St., 300' w. of Tenth Ave., to cost \$40,000; Messrs. Berger & Bayless are the architects.
BUILDING PERMITS.—Lafayette Ave., w. s. 100' e. Gray St., two-story frame dwell., slate roof; cost, \$3,500; owner, W. E. Andrews, Tremont; builders, W. Holder and Nunnemaker & Samuels.
 Lincoln Ave., w. s. 51' n. Southern Boulevard, four-story brick factory, tin roof; cost, \$10,000; owner, Annie Derleth, 608 East One Hundred and Thirty-fourth St.; architect, J. W. Cole; builder, John Jordan.
 Melombs Dam Road, w. s. 600' n. Two Hundred and Sixth St., two-story frame dwell., shingle roof; cost, \$2,000; owner, Estler Jersey, 270 West One Hundred and Twenty-eighth St.; architect, Wm. Howe.
 Ninety-first St., n. s. 10' e. Fourth Ave., 2 three-story and brownstone front dwellings, tin roofs; cost, each, \$10,000; owner, Susan Sullivan, 1365 Lexington Ave.; architect, J. Sullivan.
 One Hundred and Thirty-fourth St., s. s. 120' e. Lincoln Ave., two-story brick factory, gravel roof; cost, \$6,000; owner, N. Y. Wood Turning Co., on premises; architect and builder, Wm. J. Merritt.
 Avenue B, No. 258, five-story brick tenement and store, tin roof; cost, \$20,000; owner, Thomas J. Hughes, 902 East Fifteenth St.; architect, Fred Leith.
 Courtland Ave., No. 361, three-story frame tenement, tin roof; cost, \$3,500; owner, Hugh Martin, 268 Courtland Ave.; architect, A. Johnson; builder, A. Johnson & Jaeger.
 West Fifty-seventh St., Nos. 515, 517, and 519, 3 three-story brick tenements, tin roofs; cost, each, \$16,250; owners, Elsworth L. Striker, 308 West Fifty-second

St. and John Quinn, n e cor. Eleventh Ave. and Fifty-first St., architect, C. F. Hilder, Jr.

First Ave., n e cor. Seventeenth St., four-story and attic brick school-house, tin and slate roof; cost, \$110,000; owner, City of New York; architect, J. S. Stagg.

Schuyler Ave., w s 100' s Morris Dock Station, two-story frame dwell., slate roof; cost, \$5,000; owner, Archibald Buchanan, 874 Eighth Ave.; architect, Chas. Baxter.

Sixtieth St., n s 175' w Tenth Ave., five-story brownstone tenement, tin roof; cost, \$13,000; owner, Thos. Cowman, 513 West Sixtieth St.; architect, M. Louis Unglich.

Eighty-fourth St., s s 100' w Second Ave., five-story brick tenement, tin roof; cost, \$20,500; owner, Geo. Keller, West Farms; architect, John Molnisky; builders, Hollister & Friedlein.

Brook Ave., s s 25' s One Hundred and Forty-sixth St., two-story frame dwell. and store, tin roof; cost, \$3,000; owner, Wenzel Kraus, 623 North Third Ave.; architect, Adolph Pfeiffer.

Morris Ave., w s 65' n One Hundred and Forty-eighth St., three-story brick dwell., tin roof; cost, \$1,000; owner, Carl Hulster, Morris Ave. and One Hundred and Forty-eighth St.; architect, Adolph Pfeiffer.

ALTRAZ HOUSE. — West Twenty-seventh St., Nos. 318 and 320, three-story brick extension, tin roof; cost, \$14,000; owner and builder, John L. Hamilton, 318 West Twenty-seventh St.

East Thirtieth St., Nos. 410 and 412, two and part one-story brick extension, gravel roof; cost, \$6,000; owner, Thos. H. Marx, on premises; architect, Ernest W. Hirsch.

Rail Route, No. 188, rapid damage by fire; cost, \$20,000; owner, Thos. H. Marx, 21 East Thirtieth St.; builder, Thos. Mulligan.

Philadelphia.

BUILDING PERMITS. — Hope St., n e cor. Third St., three-story dwell., 18' x 34'; T. Matthews, contractor.

Federal St., w of Broad St., two-story stable, 20' x 40'; W. T. Robinson, owner.

Allegheny Ave., cor. Frankford Road, three-story dwell., 20' x 70'; Thos. Quinn, owner.

Lebanon St., bet. Little Wayne and Godfrey Sts., two-story dwell., 14' 6" x 35'; W. Oxford.

Catharine St., e of Fifteenth St., three-story dwell., 18' x 62'; Jno. O'Donnell.

Germania Road, cor. Lehigh Ave., 7 three-story stores and dwell., 12' x 30'; one, 18' x 40'; E. Hogan, owner.

Franklin St., n of Cumberland St., 8 two-story dwells., 12' x 42'; two, 18' x 42'; A. D. Kennedy, owner.

Fairmount Ave., w of Thirty-seventh St., three-story dwell., 18' x 40'; Wendell & Smith, contractors.

Broad St., e of Morris St., 2 three-story dwell., 18' x 65'; C. Moore, owner.

Fairhill St., n of Susquehanna Ave., ice-house and storehouse, 30' x 44'; W. Teubenberg, contractor.

Hancock St., n of Dauphin St., 4 two-story dwells., one, 18' x 40'; three, 18' x 42'; J. Williamson, contractor.

Twenty-first St., s of Columbia Ave., three-story dwell., 18' x 82'; C. Backe, contractor.

Chestrnut St., w of Thirty-eighth St., three-story dwell., 31' x 84'; W. C. McPherson & Sons, contractors.

Sixth St., s of McClellan St., 9 two-story dwells., two, 11' 7" x 45'; four, 16' x 45'; Wm. Morrow, owner.

Catharine St., No. 1131, three-story dwell., 18' x 65'; Cavanaugh & Brown, contractors.

Arch St., n of Third St., 2 three-story dwells., 18' x 20'; S. Heintz, contractor.

Germania Ave., No. 4087, three-story dwell., 17' x 60'; Ernest Zell, owner.

Carpenter St., No. 822, four-story dwell., 18' x 62'; J. B. Baratta, owner.

Lincoln Pike, cor. Mill St., two-story store and dwell., 21' x 70'; M. McGrath, owner.

Seventh St., e of Kingsessing Ave., 2 two-story dwell., 20' x 42'; R. A. Parker, contractor.

Kennington St., cor. Toga St., two-story dwell., 20' x 60'; J. B. Yerkes, contractor.

Eighteenth St., cor. Herks St., 3 three-story dwells., 17' x 65'; J. Lewis Kates, owner.

Montgomery Ave., e of Girard Ave., 2 two-story dwells., 18' x 45'; Holliston & Taylor, contractors.

Hilary St., bet. Reed and Wharton Sts., 6 two-story dwells., 19' x 38'; Thos. Marshall, owner.

Buckins St., w of Frankford Road, three-story dwell., 18' x 50'; M. B. Maybury, contractor.

Artist St., No. 1316, two-story dwell., 18' x 40'; Wm. Bunch, Jr.

Herman St., cor. Hancock St., 2 three-story dwells., 16' x 42'; Oliver P. Fisher, contractor.

Kennington Ave., n of Harrowgate Lane, 2 two-story stores and dwells., 17' x 45'; E. Schmidt.

Fifth St., s of Clearfield St., three-story dwell., 18' x 35'; Pat McCahey, owner.

Somerset St., bet. Fairhill and Sixth Sts., 2 three-story dwells., 17' x 20'; Thos. Marshall, contractor.

Barney St., n of Fortieth St., three-story dwell., 18' x 64'; W. P. Fogg, contractor.

Harvey St., Nos. 62 and 64, 2 three-story dwells., 18' x 41'; W. H. Dranner, contractor.

Beck St., No. 1615, two-story machine-shop, 18' x 30'; R. A. Bears.

Penn St., n of Harrison St., three-story dwell., 33' x 84'; Duryea & Childs.

St. Louis.

BUILDING PERMITS. — Fifty permits have been issued since our last report, eleven of which are for unimportant frame houses. The rest of those worth \$2,500 and over are as follows: —

Kinn, Jabrowsky, 3 adjacent tenements; cost, \$1,200; Theo. Roesch, contractor.

M. Cozgrove, two-story brick dwell.; cost, \$5,500; contract sub-let.

John Spurr, two-story brick dwell.; cost, \$3,000; C. Hage & Hage, alteration shop and warehouse; cost, \$5,000; Hage & Hage, contractors.

St. Louis Mutual House-Building Co., two-story store and dwell.; cost, \$2,700; E. Mortimer, architect; J. Kaiser, contractor.

L. Ph. Schler, two-story brick dwell.; cost, \$3,000; contract sub-let.

Thomas Manton, two-story store and dwell.; cost, \$3,300; O'Malley & Bros.

Henry Fenebach, three-story store and flats; cost, \$3,600; contract sub-let.

Adam Reitz, 3 adjacent two-story tenements; cost, \$3,300; O. Koenig, architect; F. Hermann, contractor.

J. Tompkins, 2 adjacent two-story stores and dwells.; cost, \$6,500; T. Gurgarty, contractor.

Bids and Contracts.

List of proposals received and opened at noon, on September 23, 1884, by then, M. C. Meigs, Supervising Engineer and Architect, for iron-work for roofs over the new Pension Building, in Washington, D. C.:

C. A. Schneider Bros., Washington, D. C., for the whole work, \$50,393.

Fort Pitt Steam Boiler and Building Works, Pittsburgh, Penn., \$25,488.

Riverside Bridge and Iron Works, Paterson, N. J., \$14,144.

Phoenix Iron Company, Trenton, N. J., \$18,815.

Cheney & Hewlett, New York, N. Y., \$16,000.

Penn Bridge Works, Beaver Falls, Pa., \$14,375.

Post & McCord, New York, N. Y., \$59,844.

New Jersey Steel and Iron Company, Trenton, N. J., for roofs over office room, 3 cents per pound; for roofs over court-yard, 5 1/2 cents per pound.

Shedd & Co. Iron Works, Louisville, Ky., for the whole work, \$51,981.

Pittsburgh Bridge Co., Pittsburgh, Pa., \$32,492.

Passaic Rolling Mill Co., Paterson, N. J., \$13,033.

Keystone Bridge Co., Pittsburgh, Pa., \$58,648.

W. C. Carroll & Co., Pittsburgh, Pa., \$51,000.

King Iron Bridge Co., Cleveland, O., \$17,000.

Haugh, Ketchum & Co., Indianapolis, Ind., \$17,838.

Other bids were received, after the time for opening, from Schiller Bridge Works, of Pittsburgh, Pa., for \$47,450.

Union Foundry & Pullman Car-Wheel Works, of Chicago, Ill., for \$54,727.

BALTIMORE, Md. — The following is an abstract of the bids on carrying the stone panels and spandrels for the Car-house and post-office:

M. A. McEwen, 6 panels and impost, first story, \$13,770; panels, A, \$1,330; B, \$1,690; C, \$1,360; D, \$1,600; E, \$1,310; F, \$1,500; G, \$1,000; H, \$1,500; 62 spandrels, I, \$17,720.

John Monroe, 6 panels and impost, first story, \$11,207; panels, A, \$880; B, \$880; C, \$1,320; D, \$1,792; E, \$792; F, \$1,792; G, \$1,320; H, \$1,792; 62 spandrels, I, \$12,000.

Cape Ann Granite Company, panels, A, \$1,015.63; B, \$1,016.62; C, \$1,116.63; D, \$1,022.29; E, \$1,073.90; F, \$1,080.00; G, \$1,132.23; H, \$1,022.29; 62 spandrels, I, \$12,000.

Alex. Kemp, panels and impost, first story, \$6,000; panels, A, \$600; B, \$800; C, \$900; D, \$800; E, \$800; F, \$800; G, \$1,000; H, \$800; 62 spandrels, \$4,320.

Ben. K. Ireland, Ltd. — The following is an abstract of the bids for supplying wrought-iron beams to the Ordnance Depot: —

A. and P. Roberts & Co., Philadelphia, Penn., \$15,525.75.

New Jersey Steel and Iron Company, Trenton, N. J., \$10,000.00.

Phoenix Iron Company, Philadelphia, Penn., \$15,525.75.

Passaic Rolling Mill Company, Paterson, N. J., \$15,514.84.

Carregre Bros. & Co., Pittsburgh, Penn., \$14,559.11.

Pottsville Iron and Steel Company, Pottsville, Penn., \$15,037.60.

Jones & Laughlin, Chicago, Ill., \$14,405.88. This firm failed to bid on several articles.

PROPOSALS.

RIP-RAP GRANITE. (At Block Island, N. Y.) ENGINEER OFFICE, U. S. ARMY, NEWPORT, R. I., October 6, 1884.

Sealed proposals, in duplicate, will be received at this office until 12 o'clock, noon, on Tuesday, the 24th day of October, 1884, at which time they will be opened in presence of bidders, for furnishing rip-rap granite for the breakwater at Block Island, N. Y., under the appropriation by the Act of Congress of July 5, 1884, of \$15,000.

The United States reserves the right to reject any or all proposals.

Specifications, blank proposals, and full information as to the manner of bidding, conditions to be observed by bidders, and terms of contract and payment, will be furnished on application to this office.

GEORGE H. ELIOT, Lt.-Col. of Engineers.

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ARMY BARRACKS. (At Newport, R. I., and New York, N. Y.) OFFICE OF CHIEF QUARTERMASTER, DEPARTMENT OF THE EAST, NEWPORT, R. I., October 15, 1884.

GOVERNOR'S ISLAND, N. Y. II., October 15, 1884.

Sealed proposals in triplicate, subject to the usual conditions, will be received at this office, and the Offices of the Quartermaster at the posts mentioned below, until 12 o'clock, M., Eastern time, on the 15th day of November, 1884, at which time and places they will be opened in the presence of the bidders, for the construction of one set of barracks of brick, or frame, at each of the posts of Fort Adams, R. I., and Fort Hamilton, N. Y. II., in accordance with plans and specifications, which can be seen at this office, and at the Offices of the Post Quartermaster at Fort Adams, R. I., and Fort Hamilton, N. Y. II.

One copy of the advertisement should be securely attached to each triplicate proposal, and be mentioned therein as comprising part of it.

Bids for proposals and information as to manner of bidding, etc., can be obtained at this office.

Proposals must be accompanied by a guarantee with two sureties in the sum of two hundred dollars.

A proposal not accompanied by such a guarantee will not be considered.

PROPOSALS.

Envelopes containing proposals should be marked "Proposals for Construction of Barracks." The Government reserves the right to reject any or all bids. ALAN J. PERLEY, 462 Assistant Quartermaster General, U. S. Army.

BRIDGE.

(At Cincinnati, O.) Cincinnati, September 23, 1884. Sealed proposals will be received at the office of the County Commissioners, southwest corner Fourth and Race Sts., until Wednesday, October 23, 1884, at 12 o'clock, M., for the iron superstructure and masonry of a bridge over Duck Creek, on the road from Red Bank to Madisonville, in Columbia Township, to consist of one span, of eighty feet, with clear roadway twenty feet.

To be built according to plans and specification made on file in the County Commissioners' office.

The Commissioners reserve the right to reject any or all bids.

By order of the Board of County Commissioners, JOSEPH W. BURT, County Auditor.

STONE AND BRICKWORK.

(At Terre Haute, Ind.) OFFICE OF SUPERVISING ARCHITECT, TREASURY DEPARTMENT, WASHINGTON, D. C., October 6, 1884. Sealed proposals will be received at this office until 2 p. m., on the 31st day of October, 1884, to supply and setting all the stone work, and finishing and laying all the brickwork required for the main and superstructure of the post office, etc., building at Terre Haute, Ind., in accordance with drawings and specification, copies of which may be seen on duty additional information obtained on application at this office, or the office of the superintendent.

Bids must be accompanied by a certified check, and those received after the time of opening will not be considered.

M. L. HILL, Supervising Architect.

CROTON AQUEDUCT.

(Near New York, N. Y.) AQUEDUCT COMMISSIONER, ROOM 78, TRIBUNE BUILDING, NEW YORK, October 3, 1884. Bids or proposals for constructing Section A and B of the New Croton Aqueduct in the 24th Ward of the City of New York, will be received at this office until Wednesday, October 20, 1884, at three o'clock, p. m., at which place and hour they will be publicly opened and read by the Aqueduct Commissioner, and the award of the contract will be made by said Commissioner as soon thereafter as practicable.

The portion of the new aqueduct for which bids are hereby invited is in tunnels, and is divided into two sections, viz: —

Section A, extending from a point near the High Bridge, northward a distance of about 11,950 feet; and having three working shafts.

Section B, extending from the end of Section A northward a distance of about 12,300 feet, and having two working shafts.

Bidders can bid for either one, or for both, of the above sections; but each section must be bid for, and will be awarded separately. Any bidder for both Sections who will not accept an award for one Section must so state in his bid.

Each bid must be enclosed in a sealed envelope, indorsed with the name of the person or persons making the same, and the Section for which it is made.

Each bid must state the name and place of residence of all persons interested with him therein; also that it is made without any connection with any other person making a bid for the same work, and is in all respects fair and without collusion or fraud; that no member of the Aqueduct Commission, or of the Common Council, nor head of a Department, Chief of a Bureau, deputy thereof, or clerk therein, or any other officer of the Corporation, or any person in the employ of the Aqueduct Commissioner, is directly or indirectly interested in the bid, or in the work to which it relates, or in the profits thereof.

Each bid must be verified by the oath of the party making the same, that the several matters therein stated are true, and must be accompanied by a certified check upon a National or State Bank, of the City of New York, drawn to the order of the Comptroller of the City of New York, for an amount not less than five per cent of the amount of the security required for the faithful performance of the contract. Such check must not be inclosed with the bid or proposal, but must be delivered to the Aqueduct Commissioner, or to their Secretary, for delivery to the Comptroller.

All deposits, except that of the successful bidder, will be returned by the Comptroller to the persons making the same within three days after the contract is awarded.

If the successful bidder shall neglect or refuse to execute the contract within ten days after notice that it has been awarded to him, the amount of the deposit made by him shall be forfeited to and retained by the City of New York as liquidated damages for such neglect or refusal, pursuant to the provisions of Section 29 of Chapter 180 of the Laws of 1883.

If he shall execute the contract within the time aforesaid, the amount of his deposit will be returned to him.

The amount of security required in the contract for Section A is one hundred and twenty-five thousand dollars; and for Section B, one hundred and thirty-five thousand dollars; with not less than two satisfactory sureties, who must be householders, or resident freeholders, of the State of New York.

The Aqueduct Commissioner reserves the right to reject any and all bids if they deem it for the best interest of the city so to do.

Blank forms of bid or proposal, and proper envelopes for their inclosure, forms of the contract, specifications, and bond, and all other information required, can be obtained at the office of the Aqueduct Commissioners, Room 78, Tribune Building, New York.

By order of the Aqueduct Commissioners, JAMES W. McCULLOCH, Secretary.

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2. If such a flue were of sufficient capacity throughout, it is very doubtful whether any advantage could be gained by flaring at the top, although, if the flue were originally too small, a little improvement in the draught might possibly be gained in that way. In many cases a damper is placed over the top of the chimney, which of course contracts the outlet more or less, without material disadvantage.

3. The same principles apply to small as to large chimneys.

4. For draught, it is almost always best, unless the flue is large, to carry it up as nearly vertically as possible. If the chimney is exposed to down draughts from higher buildings or hills in the neighborhood, or if it is too large for its work, change of course may help to check downward currents, and such deviations from the vertical line help to prevent the fall of soot in summer from the chimney into the room.

5. An open fireplace three-and-one-half feet wide, and two-and-one-half feet high should have a flue 12" x 24", or 16" x 16", if possible, although a flue 12" x 16" might do, if carried up nearly straight.

6. There would be no objection to using a 12" x 12" square flue instead of a circular one 12 inches in diameter. The circular flue will, however, be rather the better of the two, as being less liable to down-draughts.

7. An 8" x 8" flue is too small for a soft-coal grate, except, perhaps, one of the miniature English ones. For hard coal or coke it may be made to do, if the chimney is high, and the flue straight; but 8" x 12" would be much better.

8. Staining with oil of crocodote. — EDS. AMERICAN ARCHITECT.]

A QUESTION OF COMMISSIONS.

MINNEAPOLIS, MINN., October 7, 1884.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—What are the usual commissions charged when an architect furnishes complete plans and elaborate details for a house costing from seventy-five to one hundred thousand dollars, two-thirds of the work being done by the day, the architect buying all materials and paying all bills for labor and materials, and being responsible for same. An early answer will confer a favor on

Respectfully yours, ARCHITECT AND SUBSCRIBER.

[We do not think there is any rule or custom in regard to the proper charge for the extra work imposed upon an architect by employing him to buy the materials and pay workmen. Perhaps the commission allowed by courts to trustees of estates for buying and selling property for the trust estate, which is, we believe, two per cent on the amount involved, might be a guide, although the labor and special knowledge required of an architect for performing such a duty are greater than those expected of trustees. — EDS. AMERICAN ARCHITECT.]

ARCHITECTURAL PICTURE-MAKING.

CHICAGO, September 14, 1884.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—I write you to inquire where I may be able to obtain a first-class work on architectural picture-making, with ink and water-colors. I have seen the work recently published by Mr. Linfoot, but it is not exactly what I wish. Would be much obliged if you could give me any information in regard to the matter.

Yours truly, R. B. HOTCHKIN.

[To our mind, the most useful book ever published for those who wish to work effectively in various styles is J. D. Harding's "Principles and Practices of Art." It is illustrated by Indian-ink washed drawings and water-colors, but they are so admirable of their kind, and the explanations of the methods of obtaining effects by light and shade and composition are so clear, that the ambitious perspective draughtsman will find it a treasure. After this, any of Samuel Prout's books or lithographed drawings will be excellent, showing the application by a great artist to architectural drawing of the technical science to which Harding's book furnishes the key. These books, with the exercises in Knakin's "Elements of Drawing," as practice for the hand and eye, will teach our correspondent all he will need to learn for a long time. "Principles and Practices of Art" is out of print, but may be picked up at the second-hand book-store, and the same is true of the Prout works. Knakin's "Elements of Drawing" should be procured, if possible, in the English edition, but in default of this, Wiley & Sons' reprint, published in New York, is better than nothing. — EDS. AMERICAN ARCHITECT.]

NOTES AND CLIPPINGS.

THE WEIGHT OF HARD-WOODS.—The following is given as the weight of hard-woods per foot, board measure. Some allowance must be made in the weight of fresh cut, as the same wood when green differs somewhat in weight in different localities:—

Name of wood.	Green.	Dry.	Name of wood.	Green.	Dry.
	lbs. to 1 foot.	lbs. to 1 foot.		lbs. to 1 foot.	lbs. to 1 foot.
Ash.....	4 1/2	3 1/2	Hickory.....	5	4 1/2
Apple.....	5	4	Holly.....	5 1/2	4 1/2
Blood.....	5	4 1/2	Lignumvit.....	9	8 1/2
Birch.....	4 1/2	3 1/2	Maple.....	5	4 1/2
Basswood.....	3 1/2	2 1/2	Mahogany.....	5 1/2	4 1/2
Chestnut.....	4	3	Oak.....	5	4 1/2
Cherry.....	4 1/2	3 1/2	Poplar.....	3 1/2	2 1/2
Cypress.....	4	3	Rosewood.....	8	7 1/2
Cedar.....	4	3	Walnut.....	4 1/2	3 1/2
Elm.....	4	3			

— Miss. Valley Lumberman.

ELECTRIC LIGHT-HOUSE AT RIO DE JANEIRO.—An electric light-house has lately been erected on the island of Rasa, at the entrance to the Bay of Rio Janeiro. The light-house proper is eighty-five feet in height, and is built upon a rock two hundred and thirty feet in height, so that the focus of the light of the apparatus is fixed at a total elevation of three hundred and fifteen feet above the sea. The electric current is produced by a continuous-current Gramme machine, working at the rate of seven hundred revolutions, and feeding a light rated to be of two thousand candle-power. The Gramme machine mentioned is worked by a stationary surface condensing steam-engine, such arrangement being rendered obligatory, owing to the lack of fresh water. All the fittings are double, so as to prevent interruption by unforeseen

accidents; still, to render positive certainty, oil-lamps of high lighting power are always kept in readiness. The light is of the revolving class, having two white disks and one red, succeeding one another at intervals of fifteen minutes. It is asserted that, on clear nights, the light is visible as a distance close on to thirty-five statute miles; but the general efficiency of the system is tremendously impaired during foggy weather. — *Engineering News.*

IN THE STYLE OF QUEEN ANNE.—Let me offer a few reflections on the mania for Queen Anne houses that is now rife, and which I venture to pronounce a failure, and which, with more certainty, will be decreed a failure a generation hence. The thing is all wrong and on wrong principles. The Queen Anne architects indulged in no such ridiculous, fantastic freaks as we see now exhibited, and simply because such was entirely opposed to the nature and character of brick. Brick is a simple, honest, plain material, with a good color and hard, smooth surface—that is all. Whatever style can display these qualities best is the Queen Anne style and no other. The result of the modern caprices will be seen ten or twelve years hence, when certainly decay will have disintegrated or destroyed the whole, or when the owner's heart will have sickened of the frequent repairs and restorations. The old Queen Anne houses produced effect by the beautiful color and surface, the bricks being laid almost touching, with the thinnest wash of mortar between. The result is that no rain or damp ever gets between. The modern system of building is opposed to this, thick layers of mortar being interposed, with the certain result that all the elaborate gables, etc., soon begin to separate. Bricks put together in elaborate forms have no strength, no more than stones laid on earth, but displayed in surface it becomes as firm and smooth as a billiard-table. Even mouldings should be raised in the faintest degree, and the less they are the richer the effect. There is an old house out at Clapton, a "seminary for young ladies," that for design, simplicity, and pure brickwork, mixed with stone and design of outline puts to shame all the brick plantations that are now covering the city. Looking at the pretentious masses that cover the new settlement of Calogian Square or line the Embankment, one does not feel at all drawn back to the days of Queen Anne. There is a coarse, raw treatment in their embroidery, to which the brick lends itself but reluctantly. The material is too rude for such fine work. There is another sad in house adornment, which, it may be said, has run its course. This was the daubing over houses "liver-red," green, blue, etc. These efforts looked daring enough at first, but presently, as the dirt accumulated, they turned all kinds of horrid tints, and the house looked dirtier and shabbier than ever. — *Tinsley's Magazine.*

A GRAVITY RAILWAY.—Some interesting particulars regarding a curious railway at Falcon Cliff Castle, on the Isle of Man, have recently been supplied by a British railroad journal. The railway, as described, consists of an up and a down line of four-foot gauge, running parallel for about fifty yards on a gradient of about one in three. The vehicles, two tramway cars, are moved by water poured into an iron tank upon which each car rests, and the running is controlled by a stationary hand-brake. The tank is of angular shape and rests upon four wheels of the usual railway-coach pattern, with a single flange on the tire. The shape of the tank necessitates two of the wheels being placed lower than the other two, while the body of the car, resting on the horizontal line of the angle, admits of its preserving a perfect level, although running on so enormously steep an incline. A cable, permanently fixed at each end to the cars, runs in the centre of the four-foot gauge, and round a wheel about six feet in diameter stationed at the top of the gradient. The brake referred to is upon this large wheel. The length of the cable is such that, when one car on one pair of rails is at the top of the gradient, the other upon the parallel pair of rails is at the bottom. The tanks upon which the cars are fixed are fed with water at the top of the incline and emptied at the bottom, the weight of water in the filled tank being sufficient to sink this car to the bottom of the gradient, and at the same time, by means of the attached cable, to draw upon the car. The mechanism for filling the tanks can be worked by the same man who has charge of the brake of the wheels upon which the cable revolves, and by means of which the speed of the running of the cars is controlled. — *The Iron Age.*

THE BENNINGTON MONUMENT.—The Bennington Battle Monument Association elected Thomas Allen, artist, of Boston, a member of the body, Saturday evening. Mr. Allen is a great-grandson of the Rev. Thomas Allen of Pittsfield, Mass., who won renown as the fighting parson of the Revolution, at the battle of Bennington. The sculptor, Olin L. Warner, of New York, who has for some years been a member of the Association, and who is a descendant of Samuel Warner, a brother of Col. Seth Warner, of Bennington battle fame, and Mr. Allen were elected the confidential advising artists of the Association. The Association is a close corporation, and its list of members is generally full, but the policy of the body is to keep a few vacancies for the election of persons like Messrs. Warner and Allen, who are artists, and are descendants of those who fought in Bennington, or are otherwise likely to be disinterestedly identified with the monument project. The object of this is to bring an art element into the Association, which shall not only aid in the erection of a suitable monument, but shall have an æsthetic care for it when it is erected. — *Troy (N. Y.) Times.*

A CHURCH BUILT FROM A SINGLE TREE.—A redwood tree, cut in this county, furnished all the timber for the Baptist church in Santa Rosa, one of the largest church edifices in the country. The interior of the building is finished in wood, there being no plastered walls. Sixty thousand shingles were made from the tree after enough was taken for the church. Another redwood tree, cut near Murphy's Mill, in this country, about ten years ago, furnished shingles that required the constant labor of two industrious men for two years before the tree was used up. The above statements are vouched for as true by Supervisor T. J. Proctor. — *Santa Rosa (Cal.) Republican.*

been much greater, and yet the surplus revenue left over could have been considerably larger than it was. In short, where there is a large production there is of necessity large wages, where there is small production the wages are correspondingly low. So long as time remains an element in production, the longer that a man works, everything else being equal, the greater will be the amount of wealth he will produce, and the larger the amount of wages that can be paid him. In order that there may be no mistake, we would add that it frequently happens that a man can produce more wealth by the work of ten hours than by the work of twelve, fourteen or sixteen hours per day, for the reason that the strain upon his physical and mental powers by continued application makes it impossible for him to perform careful and effective service during these long periods of time.

In an issue of a later date, the *Herald* recurs to the topic as follows:—

A few days ago we attempted to answer a question, asked by a correspondent, to this effect:—"Would the rigid enforcement of an eight-hour law increase the rate of wages?" Our reply, in substance, was that it would not, and that, unless the same amount of work were done that is now accomplished in ten or more hours per day, the effect would be to reduce the rate of wages. Exception has been taken to this conclusion by certain newspapers that profess to be the special friends of the workmen. They assert that our reasoning is colored by a desire to uphold the cause of the capitalists, and that we therefore willingly consent to the degradation of the wage-earners. Such assertions are no more correct than it would be to say that Providence was peculiarly favorable to the wealthy inhabitants of Naples in that it permitted the cholera to find the great mass of its victims among the poor and wretched of that city. What we enunciated was a law as inexorable in its workings as any natural law. We would as willingly as any of our critics put an end, if we could, to the old command that man should earn his bread by the sweat of his brow; but thus far neither human thought nor patience has discovered a means of abrogating it. But it is said, you do not say how much wealth goes to the workmen and how much to the capitalists. Let us put the comparison in this way then:—According to the last census, there were in this country, in round numbers, 15,500,000 workmen who earned on an average \$350 per year, or a round total of \$5,300,000,000. Now let us suppose that these all worked one-fifth less time, and that, according to the statement put forth, they then earned one-fifth more than these old wages. According to the census, the gross value of the wealth produced in the census year was less than \$7,500,000,000. If one-fifth was subtracted from this it would leave it \$6,000,000,000. Now, if one-fifth was added to the wages of the workmen, it would give them \$6,360,000,000, and thus they would get not only all that now goes to the capitalists, but they would not then have sufficient to pay full wages all around. It is said that this should be so, but the sadness of the situation does not make it any the less inevitable. Because facts run counter to sentiment, no good end can be secured by abusing facts.

It is indeed unfortunate that many of those who are honestly striving to benefit the workmen do not take into account the limitations under which all reforms must proceed. The social question, if we did but know it, is the great question of the age. It must be blind to the teachings of experience who does not see in the growing strength of Socialism in Europe the first clouds of a storm which will not stop at the Atlantic Ocean. To-day the workman says:—"In what way am I beholden to the capitalists? I get, indeed, by my work, food, clothing, and shelter for myself and my family; but if I were on a lone island or in the wilderness, the same work would bring to me substantially the same results. But if you, Mr. Capitalist, were deprived of my assistance, if you were isolated on a distant island, what would your wealth be worth to you? It is I and my associates who make your easy existence possible. We do everything for you; you do practically nothing for us. It is the feeling conveyed in the above words that is agitating the minds of millions of men in Europe, and that cannot fail later on to agitate millions of minds on this continent; and what is more, a solution, either peaceful or revolutionary, must be found to the problem thus presented. Certainly we cannot continue to go on indefinitely as we have gone, and the sooner the leaders of public opinion realize the perils involved in delay, the easier it will reach a satisfactory adjustment. But as we have said above, nothing can be gained by ignoring the inevitable. The only wealth that can be divided, by any conceivable system, is the wealth which labor creates, and any plan which proposes to do more than this may be set down as visionary, and any man who advocates such a plan is either self-deceived, or is a wilful deceiver of his fellow-men.

THE ILLUSTRATIONS.

THE ARCADE BUILDING, PULLMAN, ILL. MR. S. S. BEMAN, ARCHITECT, CHICAGO, ILL.

THE building might be briefly described as being 250 feet long, and 157 feet wide. Its cost complete was \$325,000. Materials, pressed-brick, terra-cotta, and buff Amhurst stone. The lower story is trimmed with this stone, disposed in broad masses; the base being six feet high, and quarry faced.

The ground-floor contains all the stores of the town some fifteen in number, each about 60' x 26', all fronting on an interior paved

thoroughfare or court, well lighted by a skylight 85 feet wide, and 200 feet long. The interior walls on the court are of pressed-brick.

In the second story are the various town offices, and general business offices of the place, besides various small stores. The Public Library, reading-rooms, and general club-rooms, all of which are approached by a gallery running around the entire court; the sides being connected near the centre by bridges. The theatre has sittings for 1000 persons. There are six proscenium-boxes, a large and thoroughly-appointed stage, and five dressing-rooms.

The cost of fitting up the theatre, including decorations, furnishings, scenery, etc., was \$42,000.

The third-story portion of the building is used for lodge-rooms of various orders.

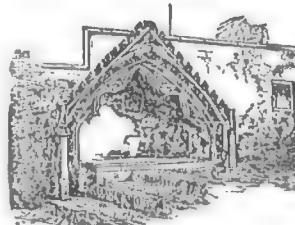
THE HOTEL DE VILLE, LOUVAIN, BELGIUM.

This building, which has an evident right to be styled "the most elaborately decorated piece of Gothic architecture in existence," was begun by Matthew de Layens in 1448, and finished after fifteen years' labor. In the course of four centuries the elaborate sculptural detail had suffered greatly, and the building was surrendered, in 1842, to M. Goyers, who restored the entire building with the greatest fidelity to the indications of the original work.

DETAIL FROM THE CHATEAU DE BLOIS.

HOUSES AT MANCHESTER-BY-THE-SEA, MASS. MR. ARTHUR LITTLE, ARCHITECT, BOSTON, MASS.

AN ART YEAR-BOOK.¹



Monument aux Humbles: Directo Ch: Eng'

THE most costly example of co-operative advertising—in disguise,—that we have ever seen, has been issued by the New England Institute, in a form which we cannot describe with exactness, because we cannot fully comprehend its purpose. In the first place it seems to aim at being a perfect example of book-making; next, we should guess its object was to exhibit and advertise the various reproductive processes employed in the illustration of books; after this its apparent excuse for being, is that it is a catalogue of some exhibition containing works of art—inferentially the current Exhibition of the New England Institute in Boston; next, it has an air of being a summary, more or less valuable, of various exhibitions of pictures held during the last year; and lastly and overpoweringly a grand glorification and "beslobberation"—to coin a word—of every person or thing which has the fortune to be mentioned within its covers. It strikes us that except in the last particular it does not quite arrive at the pinnacle of perfection that the projectors had in view.

And yet, take it apart, and then consider the sheets as possible components of some other and less pretentious compilation and much will be found worthy of commendation, particularly amongst the illustrations.

As an instance of book-making the work has one merit, and its projectors have had one "happy thought." It was a veritable inspiration to issue the work in a modest cloth-lined paper wrapper, of which the ostensible purpose is to protect the vellum binding of the book itself, but which discharges the more gracious task of concealing this same vellum cover, than which we never saw a more glancing sacrilege perpetrated in the name of high art. It is merely a minor mistake that one of the things this work was to exhibit was the several kinds and qualities of paper that may be used in fine books. It gives the book a fragmentary air and suggests, more than anything, the back portion of some English magazines, amongst whose advertising pages are bound up all sorts and sizes and colors of trade-circulars. Moreover it gives most acute emphasis to the remark in the Introduction that the chief difficulty in making such a book "is that of bringing heterogeneous material, into cohesive form, unity of effect being a most desirable quality of all well-made books." We take the privilege of remarking here that the only cohesiveness we can discover about the book is due to the binders' stitches. As a matter of book-making, too, we think that, considering the rough, hand-made paper with its rough edges, and the general air of archaism that has been aimed at in the head and tail pieces, title-page, etc., that it is a distinct mistake to have used type of aggressively modern cut. One would have certainly found the old-fashioned "f" not amiss, though he has much to be grateful for in that he is spared the offensive use of the much-abused "ye." On the other hand the printing of the brief introductory "History" of the Institute on pages upon which artotypes had previously been printed has an air *tout à fait joli*—it is well to speak of this feature in French, since it is a copy of a well-worn French trick. Another pretty conceit is the adornment of the

¹ Art Year-Book, 1884. Prepared and published by the New England Institute, Boston, Mass., U. S. A.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

(Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.)

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

300,710-711. CHANE.—Charles J. Appleby, London, County of Middlesex, England.
300,721. METHOD OF AND APPARATUS FOR COOLING THE AIR IN REFRIGERATOR ROOMS.—Timothy C. Eastman, New York, N. Y.
300,723. METHOD OF AND APPARATUS FOR COOLING THE AIR IN ROOMS.—Timothy C. Eastman, New York, N. Y.
300,725. DOOR.—Henry M. Hopkins, Putnam, Conn.
300,763. PLANK.—Stephen G. Laney, Chelsea, Mass.
300,765. SAFETY ATTACHMENT FOR ELEVATORS.—Walter N. White, Trappe, Md.
300,769. APPARATUS USED IN SINKING WELLS.—William D. Andrews, Brookhaven, N. Y.
300,800. WELL AND PUMP FOR PROCURING WATER FROM THE EARTH.—William D. Andrews, Brookhaven, N. Y.
300,801. WELL AND RESERVOIR FOR PROCURING WATER FROM THE EARTH.—William D. Andrews, Brookhaven, N. Y.
300,812-803. MEANS FOR PROCURING WATER FROM THE EARTH.—William D. Andrews, Brookhaven, N. Y.
300,808. DOOR-PROTECTOR.—Emory Barnes, Mount Pleasant, Mich.
300,810. SHUTTER.—William G. Eckstein, Chicago, Ill.
300,828. MANUFACTURE OF BRICKS.—William D. Heinze, Brooklyn, N. Y.
300,824. EVAPORATOR.—Samuel Klein, Altoona, Pa.
300,813. FIRE-ESCAPE.—William E. Lindop, St. Thomas, Ontario, Can.
300,818. FIRE-ESCAPE.—Thos. D. McKinnis, Colorado, Tex.
300,839. BRICK-MACHINE.—Napoleon M. Plante, Verplanck, N. Y.
300,839. CELLULAR DRAIN AND VENTILATOR.—Michael Post, Shelbyville, Ind.
300,841. SCREW DRIVER.—Jas. M. Hickox, Charleston, Ill.
300,862. COMBINATION DRAWING-INSTRUMENT.—Joseph McMaister Scott, Allegheny City, Pa.
300,841. FIRE-ESCAPE.—Charles F. Shore, Sacramento, Cal.
300,877. BRICK-PLANK.—Justin A. Traut, New Britain, Conn.
300,886. VALVE FOR RADIATORS.—George J. Wallace, New York, N. Y.
300,888. BRICK FOR JOINING LUMBER.—Clarence A. Williams, Webster City, Io.
300,897. AUGER-BIT.—William M. Dimit, Martinsville, O.
300,912. FIRE AND WATERPROOF ROOF PAINT.—Chas. F. Fowler and Robert H. Foss, Lake City, Minn.
300,923. AUTOMATIC SINKER (GAS VALVE).—Frank G. Johnson, New York, N. Y.
300,910. WATER-CLOSET BOWL.—James Milliken, New York, N. Y.
300,912. SECTIONAL HOUSE.—Frank H. Morse, New Orleans, La.
300,909. BRICK-KILN.—Benton Rutherford, Brimbury, Ind.
300,910. DOOR-CLOSING DEVICE.—Nathan M. Stebbins, Wales, Mass.
300,913. DEVICE FOR RAISING BUILDINGS.—Daniel Scott, Wilmington, O.
300,916. LOCK.—Geo. Thumshirn, Branford, Conn.
300,914. CHASE-TRAP.—Nathaniel T. Whiting, San Francisco, Cal.
300,918. WINDOW-SASH PULLEY.—Henry A. Wilbur, Cambridge, Mass.
300,921. ATTACHMENT FOR WINDOW BLINDS.—Andrew A. Avery, Lynn, Mass.
300,919. FIRE-ESCAPE.—Jesse W. Corder, Grand Rapids, Mich.
300,923. FIRE-ESCAPE.—Jos. T. Davis, Newark, O.
300,910. PNEUMATIC ELEVATOR-SIGNAL.—Jno. Hunt, New York, N. Y.
300,915. REMEDY AGAINST DRY-ROT AND DAMPNESS IN WALLS.—August Kotho, Hannover, Prussia, Germany.
300,918. BURGLAR-ALARM.—Charles E. Luburg, Philadelphia, Pa.
300,911. AUTOMATIC MACHINE GOVERNED BY ELECTRICITY FOR CONTROLLING ELEVATORS.—Chas. E. Chigley and Emory W. Sturtevant, Worcester, Mass.
300,913. MORTISING-MACHINE.—James Oppenheimer, Shonabrook, Io.
300,914. GUIDE PLATE FOR SLIDING DOORS.—Wm. R. K. Thilou, Brooklyn, N. Y.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report forty permits have been granted, the most important of which are the following:—
Barnes-Clum and Marr, two-story brick buildings, n s Ridge St., bet. Bayard and Webster Sts.
Francis Deimold, seven-story storage warehouse, e s West Falls Ave., bet. Block St. and City Dock.
Geo. Brumbeck, three-story brick buildings, s s St. Peters St., e s n w cor. Park St.

H. G. Smyser, 17 two-story brick buildings, n s Christian St., bet. Monroe and Tyson Sts.
Alex. Lang, three-story brick building, e s Charles St., n e cor. Cross St.
B. F. Bateman, three-story brick building (square), w s Light St., bet. West and Second Sts.
Otto Goldbach, three-story brick buildings, e s Wolfe St., bet. Jefferson and McKidder Sts.
Fred K. Burger, two-story brick buildings, n s Canon St., bet. Lancaster and Alleghena Sts.; s two-story brick buildings, w s Rose Alley, bet. Lancaster and Alleghena Sts., and 2 two-story brick buildings, n s Lancaster St., bet. Luzerne St. and Rose Alley.
W. J. E. Diven, three-story brick buildings, e s Mount St., bet. Lorman and Freeman Sts., and 4 two-story brick buildings, w s Vincent Alley, between Lorman and Freeman Sts.
John Scherer & Son, three-story brick building, s s Raborg St., bet. Poppleton and Front Sts.
Chas. Wilkins, a two-story brick buildings, n s Ramsey St., w of Monroe St.
Wm. Harlow, three-story brick building, w s Halliday St., bet. Senators and Pleasant Sts.
Wm. H. Perkins, three-story brick building, e s cor. Kutaw Pl. and Townsend St.
F. H. Shullis, 2 three-story brick buildings, n s Preston St., w of McKim St.
Wm. G. Scarlett, 4 three-story brick buildings, e s McCulloch St., n of Laurens St.
Harry Hall, three-story brick building, e s Baltimore St., e of Broadway.
Sophia O. Bauer, three-story brick building, e s Carlton St., s of Harlem Ave.
Mary M. Whelden, 3 three-story brick buildings, e s Broadway, bet. Eldern Ave. and Bank St.
The above quotations remain unchanged for November.

Boston.

BUILDING PERMITS.—Barker St., No. 406, Ward 1, for Isaac Pratt, Jr., brick boiler and engine house, 30' x 40', bet. Litchfield & Fulton, builders.
Beacon St., No. 314, Ward 11, for Jas. W. Converse, brick dwell., 40' x 75' 6", hip; J. H. Kelley, builder.
Longwood Ave., near Hunston Lane, Ward 22, for Jas. McNamick, brick storage, 30' x 100', flat; Jas. Fegan, builder.
Jackson St., cor. Bowdoin St., Ward 10, for American Unitarian Association, brick offices, 35' 6" x 85', flat; Woodbury & Leighton, builders.
Clifton St., Ward 21, for J. Breckenbridge, wooden dwell., 32' x 34', flat; H. Parks, builder.
Paris St., cor. Meridian St., Ward 2, for Edwin Geriz, wooden photograph-gallery, 17' x 22', pitch.
Clifton St., near Hatchelder St., for Mrs. A. E. Haley, wooden dwell., 24' x 34', pitch.
Walden St., No. 22, for Jas. A. Litten, wooden dwell., 20' x 24', pitch; Max Weiss, builder.
Tremont St., near Oak Sq., Ward 25, for B. F. Fluke, wooden dwell., 28' x 40', hip; Jas. Keefe, builder.
Tremont St., near Oak Sq., Ward 25, for O. E. Marshall, wooden dwell., 28' x 40', hip; Jas. Keefe, builder.
Rockland St., cor. Washington St., Ward 23, for Eclatua Club, wooden dwell. and hall, 20' x 40', pitch; Jno. String, builder.
St. John St., near Centre St., Ward 23, for Albert Lewis, wooden dwell., 28' x 30', pitch; H. D. Ayers, builder.
Recent Heights.—Ward 1, for M. E. Sprague, wooden dwell., 27' x 34'; nassard; S. E. Sprague, builder.
Greenwich St., near Dorchester Ave., Ward 24, for P. M. Flanagan, 2 wooden dwell., 22' x 30', flat; Jos. O. Reed, builder.
Poplar St., cor. Hibern St., Ward 23, for Alex. Rogers, wooden dwell., 7' x 15' and 28' x 34', pitch; Alex. Rogers, builder.

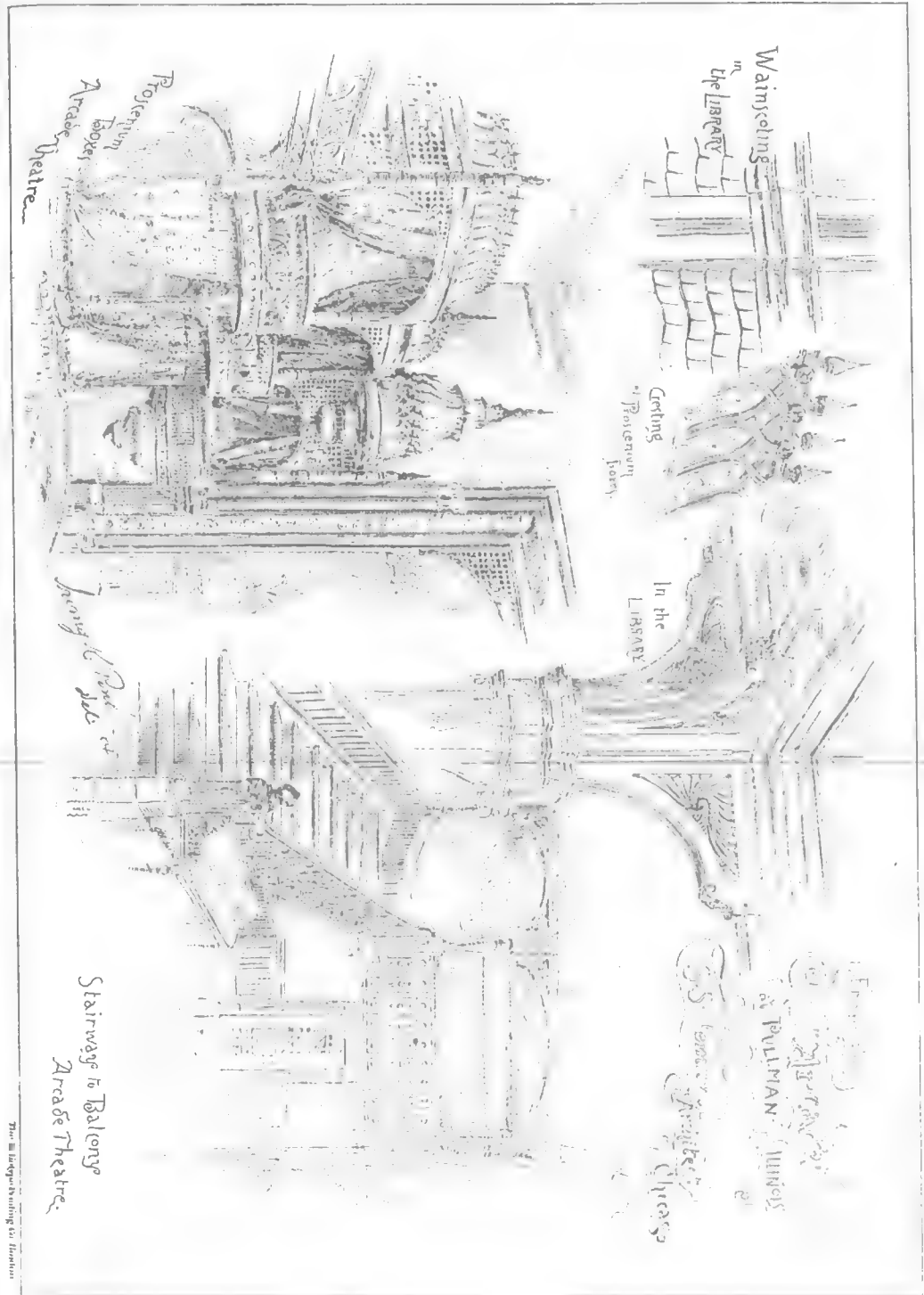
Brooklyn.

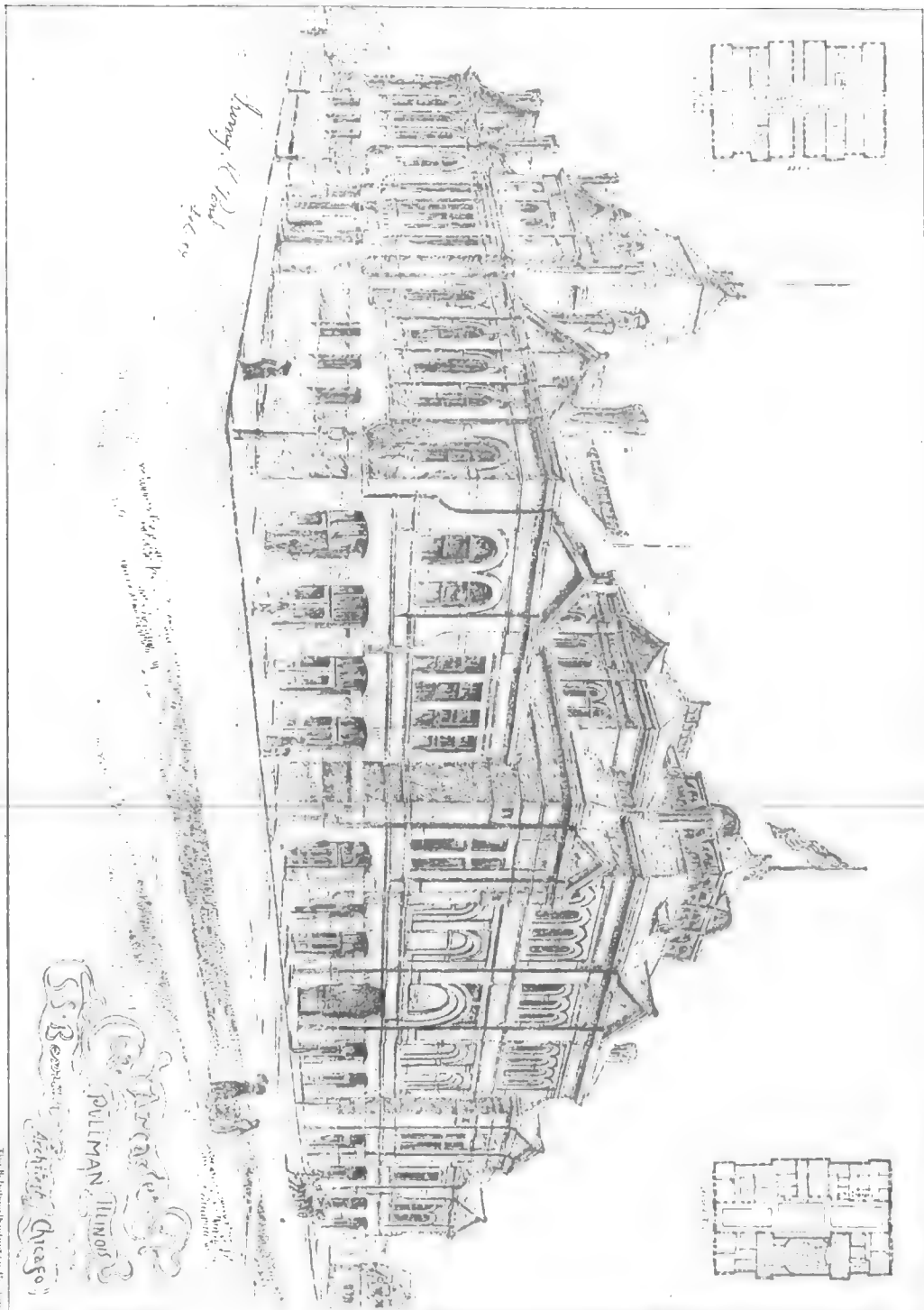
BUILDING PERMITS.—First St., n s, 115' 10" e Seventh Ave., two-story brick and brownstone dwell., tin roof, cost, \$5,000; owners, etc., Martin & Leo, 440 Clermont Ave.
First St., n s, 60' 10" e Seventh Ave., 1 three-story and 2 two-story and basement brownstone dwellings, cost, \$2,000 and \$2,000 each; owners, etc., Martin & Leo, 440 Clermont Ave.
Park Pl., n s, 18' 10" e Eighth Ave., four-story brownstone tenement, tin roof, wooden cornice, cost, \$12,000; owner and builder, John Adams, Park Pl.; architect, J. K. Gilligan.
Park Ave., e s cor. Graham St., four-story brick store and dwell., tin roof; cost, \$8,500; owner, Gustav C. Wendig, n e cor. Park Ave. and Graham St.; architect, Carl A. Elmsland; builders, Donlon & Walton and Wm. Zang.
Meeker St., s s, 200' e Bushwick Ave., one-story brick boiler house, iron roof; cost, \$3,000; owner, Otto Huber; architect, Charles Scoll.
Pavilion Ave., w s, 27' e Madison St., 2 two-story brick dwells., felt and gravel roofs; cost, abt. \$1,500 each; owner, Charles Hall, 63 Pavilion Ave.; architect, F. E. Thomas.
Fourth Ave., e s cor. Thirteenth St., three-story brick tenement, tin roof; cost, \$3,500; owner, Thos. Philhaddo, 213 Seventeenth St.; architect, B. S. Brown; builders, W. M. T. Corrigan.
Madison St., s s, 27' e Third Ave., 10 two-and-a-half-story brownstone dwells., tin roofs; cost, each, \$5,000; owner, Paul C. Groling, 420 Gates Ave.
Madison St., s s, e s cor. Third Ave., three-story brick flat, tin roof; cost, \$10,000; owner, East C. Groling, 420 Gates Ave.
Prospect Pl., No. 208, s s, 220' 8" e Vanderbilt Ave., tin roof; cost, \$6,000; owner and mason, David H. Hill, 383 Flatbush Ave.; architect, Walter Gault; carpenter, Geo. Schell.
Locust St., Nos. 15, 17, and 19, n s, 120' e Broadway, 3 three-story frame tenements, tin roofs; cost, each, \$1,000; owner, Virginia Perry, cor. Third Ave. and Floyd St.; builders, William Musicko and John Rucger.
Lorimer St., e s, 100' e Devoe St., four-story frame (brick-filled) tenement, tin roof; cost, \$2,000; owner, Mary J. Smith, 218 Lorimer St.; architect, E. F. Taylor; mason, Matthew Smith.

Pineapple St., n s, 150' e Hicks St., five-story boarding-house, tin and slate roof; cost, \$18,000; owner, William Tumbridge, 78 Hicks St.; architect, Augustus Hatfield.
Prospect Ave., e s cor. Fourth Ave., 3 three-story brick tenements and store and tenement, tin roofs; cost, each, \$2,000; owner and builder, M. A. Wood, 68 Fifteenth St.; architect, C. B. Sheldon.
Thirteenth St., n s, 37' 10" e Sixth Ave., 4 two-story brick dwells., tin roofs, wooden cornices; cost, each, \$4,500; owner, etc., Edwin G. Squanco.
Thirteenth St., Nos. 211 and 213, n s, 25' e Fourth Ave., 2 two-story brick dwells., tin roofs; cost, each, \$2,000; owner, Thomas Philhaddo, 213 Seventeenth St.; architect, B. S. Brown; builders, W. M. T. Corrigan.
Margaretta St., s s, 102' e Bushwick Ave., two-story brick dwell., felt and gravel roof; cost, \$3,000; owner and builder, J. D. Mason, 37 Hopkisson Ave.
Eighth St., n s, 222' 10" e Seventh Ave., 4 two-story brownstone dwells., tin roofs; cost, each, \$1,000; owner and builder, John Heesch, 20 Webster Pl.; architect, Mr. Brimmerhoff.
Marion St., n s, 100' e Howard Ave., 4 two-story frame (brick-filled) dwells., tin roofs; cost, each, \$2,500; owner and architect, Augustus B. Pottit, 233 Broadway St.; builders, Ernest Sutterlin and William Cunningham.
Lafayette Ave., s s, 60' e Lewis Ave., 2 two-story brownstone dwells., tin roofs; cost, each, \$3,500; owner, St. J. McLaughlin, 100 Kosciuszko St.; architect, F. D. Van Pelt.
Skiffman St., No. 105, e s, 232' n Myrtle Ave., three-story frame (brick-filled) tenement, gravel roof; cost, \$3,500; owner, Wm. H. Cox, Hyerston St.; architect, J. G. Glover; builder, not named.
South First St., No. 388, 100' e Eleventh St., two-story brick blacksmith shop and dwell., tin roof; cost, \$1,500; owner, John H. Fourte, 388 South First St.; architect, Th. Engelhardt; builders, Jas. Mead & Son and John Kueger.
Floyd St., n s, 150' e Mary Ave., 2 three-story frame (brick-filled) dwells., tin roofs; cost, each, \$3,500; owner, Andrew Frellich, 292 Stockton St.; architect, Th. Engelhardt; builders, John Fuchs and H. Eich & Bro.
McKibbin St., No. 183, n s, 175' e Humboldt St., three-story frame (brick-filled) tenement, tin roof; cost, \$1,000; owner, George Seitz, 170 McKibbin St.; architect, Th. Engelhardt.
Metropolitan Ave., No. 101, s s, 120' e Bushwick Ave., three-story frame (brick-filled) tenement, tin roof; cost, \$2,500; owners, A. Annan & Son, 258 Duvoee St.; architect, H. Vollweiler; builders, John Brendel and A. Annan & Son.
Myrtle Ave., s s, 55' e Evergreen Ave., 2 three-story frame (brick-filled) tenements, tin roofs; cost, each, \$4,000; owner, etc., John Kueger, 250 Moore St.
Myrtle Ave., s s, 500' e Evergreen Ave., 2 three-story frame (brick-filled) stores and tenements, tin roofs; cost, each, \$3,000; owner, etc., John Kueger, 250 Moore St.
Bushwick Ave., w s, 25' e Boerum St., three-story frame (brick-filled) store and tenement, tin roof; cost, \$4,200; owner, Magdal Stutzmann, cor. Seigel and Humboldt Sts.; architect, H. Vollweiler, builder, John Kueger.
Broadway, s s, 40' e Van Buren St., three-story frame (brick-filled) flat, tin roof; cost, \$4,000; owner, Samuel Post, cor. Broadway and Van Buren St.; architect, H. Vollweiler; builder, S. Post.
Bureau St., s s, e s cor. Bushwick Ave., three-story frame (brick-filled) store and tenement, tin roof; cost, \$5,500; owner, Magdalena Stutzmann, cor. Seigel and Humboldt Sts.; architect, H. Vollweiler.
Fourth Ave., n e cor. Union St., 5 three-story and 2 two-story stores and dwells., tin roofs; total cost, \$5,500; owner, William Irvine, 305 Ninth St.; architect, J. O. Burns; builder, W. J. Conway.
Humboldt St., s s, e s cor. Seigel St., four-story brick waterworks, tin roof; cost, \$10,000; owner, Martin Worn, Humboldt and Seigel Sts.; architect, John Platte; builder, Jacob Rauch.
Madison St., n s, 35' e Tompkins Ave., 5 two-story brownstone dwells., tin roofs; cost, each, \$2,000; owner and builder, Jas. A. Thompson, 435 Monroe St.; architect, M. Walsh.
Willow Pl., w s, 100' e State St., five-story apartment-house, tin roof; cost, \$20,000; owner, William Tumbridge, 78 Hicks St.; architect, Augs. Hatfield.
Central Ave., n e cor. George St., 2 frame (brick-filled) three-story stores and tenements, tin roofs; cost, abt. \$5,000; owner, Charles Engert, 162 Montross Ave.; architect, F. J. Bortolucci.
ALTERNATE.—South Fifth St., s s, 100' e Second St., and one-story flat, tin roof; cost, \$1,500; owner, George Young, First St., cor. South Fourth St.; architect, E. F. Taylor; builders, James Rodwell and Sam'l Hough.
Irving St., s s, e s cor. Van Brunt St., repair damage by fire; cost, \$3,500; owner, Estate of Chas. Kellogg, 150 Columbia St.; architect, Fred. Hitzelberger; builders, Mr. Gibbons and Wm. Clark.
Prospect Pl., n s, 200' e New York Ave., 2 two-story brick extensions, tin roof; cost, \$3,000; owner, H. L. Wardwell; architect, G. Clappold; builders, James Ashfield and M. C. Rupp.
Bushwick Ave., n e cor. Minard St., three one-story frame extensions, tin roof; cost, \$4,500; owner, South Bushwick Ref. Church; architect, Parfit Bros.; builder, E. Henderson.
Meeker St., s s, 200' e Bushwick Ave., five-story brick extension, tin roof (brown); cost, \$20,000; owner, Otto Huber, Meeker St.; architect, Chas. Stoll.

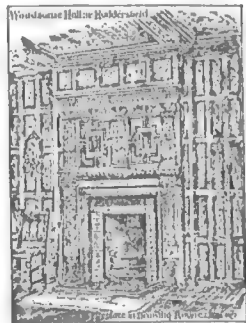
Chicago.

CHURCH.—The Third Presbyterian Church which recently was totally destroyed by fire, only outside stone walls left standing, will be rebuilt at once; W. L. B. Donnelly is the architect. The total cost of the structure injured was about \$100,000.
LIBRARY BUILDING.—N. S. Patton, architect, planned the 60,000 library-building to be erected at Oak Park for the Noville Institute, Lyons limestone and Bedford stone.
HOSPITAL.—Work on the Chicago Hospital for Women and Children, on West Adams Street, is going rapidly forward, four-story, 45' x 120', with an ell, 20'





THE ASSOCIATION OF WESTERN ARCHITECTS AND THE AMERICAN INSTITUTE OF ARCHITECTS.



other local organizations. The Institute has endeavored to unite in fellowship the architects of this continent and to combine their efforts so as to promote the artistic, scientific and practical efficiency of the profession. What the Institute proposed to do for the continent, we propose to do for the West. The Institute two years ago had a membership consisting of some sixty-two honorary members, among them such well-known names as Sir Charles Barry, Wm. Burgess, C. R. Cockerell, James Fergusson, George Godwin, Sir George Gilbert Scott, Viollet-le-Duc, and others; sixty-four corresponding members, men interested in architecture, but not practicing architects; three hundred and sixty-two Fellows and Associates, architects in good standing located in all parts of the country. Numerous additions have recently been made, of which I have no record.

The annual meeting of the Institute is usually held in the East, because the attending members are largely from that locality. Each year endeavors have been made to interest the Western members, and to induce their attendance at the next annual meeting, but with little success. To further this end two years ago the meeting was held in Cincinnati, but there was only one member present from west of that city. A year ago the meeting was held in Newport and Providence, at the fashionable season; there was but one attendance from Chicago, and none from beyond, westward. A few days ago the meeting was held in Albany, at which there was no attendance from the west beyond Cincinnati and Cleveland. These meetings are all exceedingly profitable and interesting. The visiting architects are the guests of the local chapters, who entertain royally, assisted by many liberal-minded and wealthy gentlemen, who open their houses, show many beautiful interiors and works of art, and spread out a luncheon-table with big bowls of capital punch and plenty of champagne and cigars. In spite of all these pleasures and profits, the attendance is not large. This year, at Albany, the visiting architects numbered but twenty-two, and one sees year after year nearly the same faces. Why this small attendance, and why confined to the same persons with but little variation?

The immense extent of our country, and the difficulty of being absent from one's office for a number of days, just at the time the meetings are held, is one, but this is not the main reason. It is because those members who are not in the habit of attending, feel that they are not acquainted, and that they would not feel at home. This is a great mistake. Every person who has once attended a meeting of the Institute will do all in his power to attend every one thereafter. At a single visit he feels that he is received with such good fellowship that he counts every member his friend. This good fellowship among members is one of the greatest advantages to be derived from these associations; and it is with great pleasure and with encouraging hopes of a brilliant future that we see so many present at our first meeting, and our first duty is to make friends with each other.

The Institute has acquired an honorable name throughout the world, and it is to-day an honor to be enrolled among her fellows. I hope that our Board of Directors will sooner or later arrange with the Trustees of the Institute some method by which all members of this Association will become *ipso facto* members of the Institute, conferring as many benefits as they obtain. There is strength in numbers, and this is a good reputation to be known to frequent good company. This Association united with the Institute, will include nearly every architect of good standing in the land, and some of the more celebrated of Europe. We cannot be ignored. We will establish the profession on as firm a base and on as high a pinnacle as that of the law or medicine, and secure for its members the same high respectability that is so freely accorded them in Europe.

Fellows of the Association of Western Architects: The Institute extends to you all the right hand, and wishes you a success more brilliant than the most enthusiastic among you even dare to hope.

UNITARIAN CHURCH BUILDING.¹

FROM AN ARCHITECT'S POINT OF VIEW.



ONCE, however, having chosen your site and your architect, the arrangement of the church next becomes important. Regarding this I would say that, looked at from æsthetic grounds alone, — as a matter of composition, of feeling, and of design, and aside entirely from such advantages as a minister would urge, — it seems to me that the church should be a church from bottom to top, sacred to devotion from foundation to spire. A Roman Catholic church is dedicated whenever it is ready for services, and it is used just as any room could be used for the mass and other ceremonies; but when it is wholly paid for, it is consecrated, and the altar, previously movable and temporary, is then put on a masonry foundation to stand for all time in a church. Now, I think that our churches should have, not temporary and removable altars which give place to the stage and the store, but that they should be holy all the time, — in other words, churches right down to the ground; and I believe that the social meetings, the sewing-circles, the parish-parties, should be held in an adjoining structure. It is sometimes cheaper to have these in the basement, but it does not save so very much. On the other hand, the grouping of church and parish building will be attractive outside, and the sentiment of keeping the church sacred to the worship of God certainly is worth something.

The same ideas apply to the ground plan of the audience-room. If the church is really but an audience-room, theatres and concert-halls are our best models. These have grown up out of the necessities of seeing and hearing as the prime and only needs. This is a perfectly legitimate way of looking at the question of building Unitarian churches; and, moreover, grand effects can be thus obtained. I remember noticing this, especially in a large but cheap galvanized-iron church in New York, where the seats are amphitheatrical and raised one above another, as in a Greek theatre. As an audience-room, it is well arranged for all to see and hear; as a lecture-room, it brings every one directly before the speaker; as a concert-room, the effect must be grand when the people join in the hymn. But it is not a church.

What is there about it to distinguish it from any of the places I name, or to mark it as the house of God? If the preaching is everything, if we go to church for the sermon only, if association of ideas is nothing, if kinship with the worshippers of all the Christian centuries is nothing, if worship on our part is nothing, this is our best plan for a church. But in my experience, not so an architect, but as a man, our churches have, I will not say too much sermon, but certainly too little devotion. There are very many who are unable to master doctrines of atonement and redemption, and who feel that, when trained men differ so vastly about dogma, their own lack of training and knowledge makes them no judges of it. And yet many of these still believe in a God to whom it does them good, in company with their fellows, to confide their hopes, and sorrows, and joys, and fears, and faith, and in a Christ whose life and example are the best guide they have for right living. These go to church for devotion as well as for the sermon. It is this desire for a religious and devotional atmosphere that in my experience has taken young Unitarian-bred parents to other communions where the spirit of devotion is more conspicuous, so that, even if their own convictions are not secure, their children may grow up with that respect for holy places and holy things which is less strong now than when we were children.

All this is not architecture; but it explains why I would, in the plan of a new church, hold fast to all possible accepted forms and associations, and not be set aside by the too practical committee-man, who wishes every seat as good as the others, at any cost of association, dignity, or beauty. Far from agreeing with him, I think much should be sacrificed to gain brave response, devout prayer, hearty singing. It is not a brilliant discovery of ours that mediæval churches do not wholly suit a congregational service. The mediæval builders must have known this perfectly well; but they valued other things also; they saw what was gained by effects of distance, perspective, mystery. When they worshipped they worshipped the Lord "in the beauty of holiness." These things meant something to them, and these same things lead us now to make reverent pilgrimages to all the cathedrals of England and the Continent. The cathedrals, the abbey, the village churches of the Middle Ages would never have been what they are, would never have had their atmosphere of religion and devotion, if they had not been to their builders sacred places, retreats from the world without, and distinct and different from their

¹ Portions of a paper, by Robert S. Peabody, in the *Christian Register*.

habitual surround room, it seems in churches, we in centuries of church I have dwelt so easily endure recent important like-air, but it is must not lose revival meetings on the first became torpid, was admitted, point a woman cheered up; were stranger, believes that he Of course, then, hear well, must all this the ground ancient example. It has been well church plan is a central area. The around a point, for us. The church from possessing is not a spot on holy ground. A plane generally to; nor are columns that as a wide-naved and gives the "sired, bring the umus on the in-aid to the eff. First Church in church in Spain of ground plan, best to follow.

The really in choir. In two in the fourth in the right spot. It is not elevat It is difficult to stantly recall the congregational: of men and buy-out of place; but the best position themselves attra-ably, over the en

After consid the church, their its detail to con- to a minimum. shape, and grow a large building must be given to the religious spirit both ancient an- and yet are Latin naissance cathedrals or St. Mark in V minister, or Wre: Yet how wide to used as words, have the same same Roman vein Adam designed. Our work is a building will m origin, and show phrases of the language of Wh not come to a expression throu a scholar, and a such hands, the church, but it And when he has at a few telling ing of the Conti in this off. It is prober it was Julia. "Why was not thi to the poor?" A for the poor."

A traveller thr.

(Reported for The American Architect and Building News.)

BUILDING PATENTS.

SUMMARY OF THE WEEK.

ARMY.—Eighty and Twenty; second Regiment Armory, w. s. e. corner of Third and Twenty streets, built by the Government, cost \$98,000.
BUILDINGS.—No. 18, Fifth and Twenty; second Regiment Armory, w. s. e. corner of Third and Twenty streets, built by the Government, cost \$98,000; four arcades are computing on each building.
CATHEDRAL.—For St. Lawrence Roman Catholic Church a new edifice is to be erected on the s. w. corner of Fourth Ave. and Eighty-fourth St.; from designs of Mr. Wm. Schickel.
COLLEGE.—The plans for the College of Physicians and Surgeons previously reported as to be erected on Tenth Ave., bet. Fifty-fifth and Sixtieth Sts., are being drawn by Mr. W. Wheeler Smith.
MARKET-HOUSE.—On the open Casserott St. Market, an enclosed building is to be erected for the sale of produce, meat and poultry.
DUPLEX PERMITS.—Third Ace., w. s. 30th's One Hundred and Seventieth St., one-story frame stable garage; cost, \$1,000; owner, Harry Bridge, Morrisania & Fordham R.R. Co., Henry Sprague, president, The City and County of New York and Sixty-ninth st., architect, W. W. Gardner.

Nov 22, 1884

East Seventeenth St., No. 694, rear, three-story brick office, tool-house and dwell, tin roof; cost, \$2,500; owner, John Hauer, on premises; architect, Fred. Jentz; builder, Joseph Hauer.

One Hundred and Twenty-eighth St., n. e., 150' e Lexington Ave., five-story brick factory, tin roof; cost, \$30,000; owner, J. J. Nestell, est., 152 Broadway; architect, A. B. Ogden & Son.

Forty-eighth St., n. e., 300' W. Tenth Ave., five-story brick factory, tin roof; cost, \$3,000; owner, Chas. Leinsky, 14 East Eighty-third St.; architects, Berger & Dayles; builder, Gustav Stalger.

East Seventy-fifth St., No. 41, five-story brick tenement, tin roof; cost, \$18,500; owner, Eva Mueller, 410 East Seventy-sixth St.; architect, John Brandt.

Brooklyn to Seventh Ave., n. e. a Fifty-third St., one-story brick building (skating rink), tin roof; cost, \$16,000; owner, Fred. K. Formeyer, 303 West Twenty-second St.

Second Ave., n. e., Seventy-sixth to Seventy-seventh St., 8 five-story brownstone front tenements and stores, tin roof; cost, two, each, \$22,000; six, each, \$11,000; owners, Higgins & Keating, 300 East Seventy-ninth St.; architects, A. B. Ogden & Son.

Seventy-sixth St., n. e., 80' e Second Ave., five-story brownstone front tenement, tin roof; cost, \$24,000; owners and architects, same as last.

Seventy-eighth St., n. e., 80' e Second Ave., five-story brownstone front tenement, tin roof; cost, \$18,000; owners and architects, same as last.

Oak St., No. 41, four-story brick tenement, tin roof; cost, \$12,000; owner, Sarah Welsh, 53 Oak St.; architect, Knute Tiruve.

Fifty-sixth St., n. e., 150' e Eleventh Ave., three-story brick storage building, tin roof; cost, \$1,000; owners, A. H. Hart Co., John Hinde, president, 418 West Seventy-ninth St.; architect, A. Spence; builder, John Van Dolan.

One Hundred and Eighteenth St., n. e., 90' e Fourth Ave., 2 five-story brick tenements, tin roof; cost, each, \$20,000; owner, Henry Chonoweth, Ninety-second St.; architect, John C. Burton.

Seventy-eighth St., n. e., 200' e First Ave., five-story brown stone front flat; owner, James Carroll, 143 First Ave.; architect, John F. Wilson; done by day's work.

Shirley St., Nos. 63 and 65, 2 five-story brick tenements, tin roof; cost, each, \$18,000; owner and architect, Anthony A. Hughes, 243 Fifth Ave.

Old Slip, bet. Front and Water Sts., two-story attic brick and stone building for Hook and Ladder Co., slate roof; owner, City New York Fire Dept., 135 Mercer St.; architects, N. Le Brun & Son.

Crane Works.—Dance St., No. 116, repair damage by fire; cost, \$10,000; owner, Leitch & Gattis, J. J. Jackson, agent, 3 Mercer St.; builders, John Forster and M. M. Berry.

Brooklyn, Nos. 618 and 618, repair damage by fire; cost, \$3,000; owner, Mutual Bond Estate Co., John Levy, treasurer, 472 Broadway; builder, Henry Wallace.

Fifth Ave., No. 439, one-story brick extension, rebuild front wall; internal alterations; cost, \$15,000; owner, Alex. A. Hume, 114 East Ninety-second St.; architect, Wm. H. Hume; builder, not decided.

First Seventy-third St., No. 473, internal alterations; cost, \$5,500; owner, Dr. Charles F. Hoffman, 602 West Fifty-third St.; architect, John B. Suock.

St. Louis.

BUILDING PERMITS.—Forty-seven permits have been issued since our last report, thirteen of which are for unimportant frame houses. Of the rest, those worth \$2,500 and over are as follows:—

St. Louis Cable R. Co., two-story brick stable; cost, \$2,000; sub-let.

Henry Shaw, two-story store; cost, \$3,000; Barnett & Son, architects; sub-let.

G. B. Williams, double three-story dwell; cost, \$8,200; Barnett & Son, architects; F. O. Brechner, contractor.

St. Agatha Church, one-story brick church; cost, \$27,000; A. Druding, architect; Joe Stander, contractor.

Fred. Reltz, two-story store and rooms; cost, \$2,900; J. C. Brockmeyer, contractor.

Mrs. M. Reed, two-story dwell; cost, \$2,500; W. A. Reid, contractor.

Thos. Sparks, two-story dwell; cost, \$3,800; Goosse & Lemmers, contractors.

H. F. Schrader, 3 adjacent two-story tenements; cost, \$4,500; H. F. Schrader, contractor.

H. F. Schrader, 3 adjacent two-story tenements; cost, \$4,500; H. F. Schrader, contractor.

Ferdinand Meyer, double two-story brick dwell; cost, \$6,500; T. Mueller, contractor.

Ferdinand Meyer, double two-story brick dwell; cost, \$6,500; T. Mueller, contractor.

Henry Huermann, two-story brick dwell; cost, \$3,000; L. Stecker, contractor.

Geo. E. Shorb, three-story store and dwell; cost, \$4,000; A. E. Cook, contractor.

Henry Petker, two-story tenement house; cost, \$4,800; A. Benke & Co., architects; H. Schutte, contractor.

Robt. B. Brown Oil Co., two-story brick stable; cost, \$2,500; W. Merrill, contractor.

Phil Klecker, two-story tenement; cost, \$2,500; O. F. May, architect; P. Klecker, contractor.

H. Hagen Kamp, two-story tenement; cost, \$2,800; O. F. May, architect; P. Klecker, contractor.

Schultz, one-story dwell; cost, \$2,800; O. F. May, architect; P. Klecker, contractor.

Dr. O. Ludwig, two-story business house; cost, \$5,000; N. M. Melcher, architect; sub-let.

Toledo.

BUILDING PERMITS.—Twenty-third St., cor. Madison St., brick dwell, for Mr. H. S. Wadsworth. The contractor for sub-letting only, F. Freund, cost of this portion about \$4,000; N. B. Bacon, architect.

Waymond St., frame dwell, for R. J. Wheeler; cost, \$4,000; Brown & Byington, contractors; N. B. Bacon, architect.

Woodruff Ave., frame dwell, for Mrs. L. C. Reed; cost about \$2,000; Richard Hatterley, contractor; N. B. Bacon, architect.

Woodruff St., cor. Parkwood Ave., frame dwell.

for Mr. Jas. L. Hoiger; cost, about \$7,000; J. Alexander, architect; John W. Lee, builder.

Oakwood St., cor. Jefferson St., engine-house, City of Toledo; cost, about \$11,000; Carl Schumacher, builder; N. B. Bacon, architect.

Prospect St., cor. Parkwood Ave., frame dwell, F. H. Hoag; cost, about \$1,500; J. H. Tappan, builder; N. B. Bacon, architect.

Parkwood Ave., brick dwell, F. W. Baumgardner; cost, about \$1,000; Jas. B. Hasset, builder; N. B. Bacon, architect.

Superior St., cor. Oak St., three-story brick manufacturing building, 100' x 100', for D. R. Locke (Nash); cost, about \$20,000; Geo. K. Whipple & Co., builders; N. B. Bacon, architect.

General Notes.

CATONSVILLE, MD.—W. T. Wilson, Esq., is to have erected a two-story and attic stone and frame dwell, 40' x 60', to cost \$2,000, from designs by J. A. & W. T. Wilson, architects, Baltimore.

KANSAS CITY, MO.—A. R. Hardy, repairing building on Lot 87, Swope's addition; cost, \$2,500.

E. S. Young, wooden residence on Lot 3, Block J, Ransom & Talley's addition; cost, \$3,000.

W. H. Carson, brick residence on Lot 22, Block 3, Morrison Pl.; cost, \$2,500.

MINNEAPOLIS, MINN.—J. W. Clark, one-story addition to roller rink, cor. Tenth Ave. and North First St.; cost, \$20,000.

L. L. Chadwick, two-story frame dwell and barn, n. e. cor. Third Ave. and Thirty-second St.; cost, \$2,000.

John Carlson, two-story frame dwell, n. e. Fifth St., between South Twenty-fifth and South Twenty-sixth Aves.; cost, \$2,000.

John Steins, double two-story brick stores and flats, Cedar and Myrtle Aves.; cost, \$1,000.

C. F. Stafford, a two-and-one-half-story dwell, n. w. cor. Vine Pl. and South Fourteenth St.; cost, \$10,000.

St. Paul, MINN.—J. Auer Bros., one-story mill-building, Chas. Ave. between Levee and Washington Sts.; cost, \$5,000.

Charles W. Hartman, two-story frame dwell, between Plum and Maple Sts.; cost, \$2,400.

John S. Carlson, two-story brick-rear double tenement, s. e. of Irvine Park drive, Lot 7, Block 35; cost, \$5,000.

H. C. Peterson, roller-skating rink, n. e. cor. Oak Lake St. and North Sixth Ave.; cost, \$9,000.

W. H. Carey, two-story frame dwell, s. e. of Arundel St., between Dayton and Marshall Sts.; cost, \$3,800.

STONY POINT, N. Y.—The Knapp Homestead is to be enlarged, and important alterations made, s. e. of Meadows, O. W. Honeyn & Co., of New York, for the owner, Mr. W. K. Hammond.

COMPETITION.

AMERICAN ARCHITECT COMPETITIONS.—NEW SERIES.

As the busy season for this year has nearly passed, the younger men who have in past years evinced active interest in the little competitions we have held from time to time, may be ready to test once more their skill in design in competition with their fellows. Therefore we take pleasure in inviting their attention to the following

PROGRAMME.

Most people who live in the country, or in the suburbs of a large town, and have sufficient means, usually feel obliged to "act up their carriage" and of course a carriage implies horses, and a building in which the entire establishment can be housed. Therefore we propose as the subject of the present competition a barn such as the dweller in a house that has east \$5,000 would consider an appropriate adjunct of his establishment; but as this may be somewhat ambiguous, seeing that some men think more of their horses than they do of their families, we will say that the properties would be best observed if the cost of the barn should range between \$1,000 and \$1,500.

The barn must furnish accommodation for two horses and a cow; the carriage-room must be large enough for two wheeled vehicles and a sleigh; and proper provision must be made for harness, feed and hay, and the stableman must not be overlooked. Water and ventilation must also be kept in mind.

Required:—A perspective drawing of the barn, elevations of the sides not shown in the perspective, a plan or plans, and a reasonable amount of detail; all to be included on a single sheet, 21" x 33" within the framing line. A short description and the result of a bona fide estimate must also be furnished. For the best three designs we will pay equal price of thirty dollars each.

Conditions:—Drawings must be received at the office of the American Architect, on or before Saturday, December 20, 1884.

The three prize drawings are to remain the property of the publishers.

All designs submitted are subject to publication in the American Architect at the pleasure of the editors.

All designs must be sent in signed only by a motto—not a graphic symbol—the name and address of the author being enclosed in a sealed envelope, endorsed with a duplicate motto.

The jury of award will be composed of three architects.

PROPOSALS.

STEAM-HEATING APPARATUS. [At Memphis, Tenn.]

OFFICE OF SUPERVISING ARCHITECT, TREASURY DEPARTMENT, WASHINGTON, D. C., November 11, 1884.

Sealed proposals will be received at this office until 2 P. M., on the 8th day of December, 1884, for supplying and putting in place complete in the Marine Hospital building at Annapolis, Md., a low pressure return circulation steam heating apparatus, in accordance with drawings and specification, copies of which and any additional information may be had on application at this office, or the office of the superintendent.

This must be accompanied by a certified check, and those received after the time of opening will not be considered.

M. E. BELL, Supervising Architect.

PROPOSALS.

conformance with drawings and specification, copies of which and any additional information may be had on application at this office, or the office of the superintendent.

This must be accompanied by a certified check, and those received after the time of opening will not be considered.

M. E. BELL, Supervising Architect.

POROUS TERRA-COTTA TILE FOR ROOFS.

[At Buffalo, N. Y., and Toledo, O.]

OFFICE OF SUPERVISING ARCHITECT, TREASURY DEPARTMENT, WASHINGTON, D. C., November 7, 1884.

Sealed proposals will be received at this office, until 2 P. M., on the 22d day of November, 1884, for furnishing the porous terra-cotta tiles for the roof of the custom house, etc., buildings at Buffalo, N. Y., and Toledo, O., estimated as follows:—

4,500 superficial feet at Buffalo, N. Y. 13,000 superficial feet at Toledo, O., in accordance with drawing and specification, copies of which and any additional information may be had on application at this office, or the office of the superintendent at each building.

This must be accompanied by a certified check, and those received after the time of opening will not be considered.

H. J. AGGERS, Acting Supervising Architect.

IRONWORK.

[Near Charleston, W. Va.]

U. S. ENGINEER OFFICE, 318 N. FAYETTE ST., BALTIMORE, MD., October 30, 1884.

Proposals for ironwork in the foundations of a navigation, at Lock No. 6, on the Great Kanawha River, W. Va., about four miles below Charleston, will be received at the U. S. Engineer Office, Charleston, Kanawha County, W. Va., until noon of December 2, 1884, and opened immediately thereafter.

Blank forms, specifications, and any desired information can be had upon application to Mr. A. M. Scott, Assistant Engineer at that office.

WM. P. CRAIGHTILL, Lt.-Col. of Eng'rs, U. S. Army.

TIMBER, BOLTS AND STONE.

[Near Ft. Pleasant, W. Va.]

UNITED STATES ENGINEER OFFICE, CINCINNATI, O., October 23, 1884.

Sealed proposals in duplicate, will be received at this office until noon (local time) on Monday, the 11th day of December, 1884, for furnishing material and building two levee piers in the Great Kanawha River near Point Pleasant, West Va.

Approximate quantities of material required:—

204,772 feet B. M. oak timber.

9,516 lbs. iron drift bolts.

2,400 cubic yards rip-rap stone.

Specifications and blank forms for proposals will be furnished on application to this office. Letters asking specifications should be marked "Official Business" on the envelope.

WM. E. MERRILL, Lt.-Col. of Engineers.

TIMBER.

[At Chicago, Ill.]

UNITED STATES ENGINEER OFFICE, 25 HUNOKE BUILDING, CHICAGO, ILL., November 8, 1884.

Sealed proposals in triplicate, will be received at this office, until 12 o'clock, noon, Tuesday, December 9, 1884, for furnishing pine and hemlock timber for breakwater construction at Chicago, Ill. The total amount required will be about two millions one hundred and sixty-seven thousand (2,167,000) feet B. M., to be delivered between the opening of spring navigation and September 1, 1885.

Parties who are not prepared to furnish the entire lot may submit propositions for a portion only, but not for less than two cribs.

For specifications, blanks for proposals, and all information, apply at this office.

WM. H. H. BENYAUD, Major of Engineers, U. S. A.

MARBLE TILING.

[At Kansas City, Mo.]

OFFICE OF SUPERVISING ARCHITECT, TREASURY DEPARTMENT, WASHINGTON, D. C., November 1, 1884.

Sealed proposals will be received at this office until 2 o'clock, P. M., on the 22d of November, 1884, for furnishing and laying all the marble tiling required in the custom house and post-office building at Kansas City, Mo., in accordance with the drawings and specification, copies of which and any additional information may be obtained on application at this office, or the office of the superintendent.

This must be accompanied by a certified check, and those received after the time of opening will not be considered.

M. E. BELL, Supervising Architect.

COURT-HOUSE FRONT.

[At Woodstock, Va.]

Sealed proposals will be received at the office of the Clerk of the County Court of Shenandoah County, until Monday, November 24, 1884, 10 o'clock A. M., for furnishing the materials and performing the necessary labor for the erection of a court-house front at Woodstock, Va.

The building to be of brick, with stone facing, 40' x 75', two-story, with mansard roof and tower, with the clerk's offices (Circuit and County) on the lower floor free-proof.

Plans and specifications may be seen at the County Clerk's office, or at the office of T. F. Schneider, Architect, 333 F St., n. w. Washington, D. C.

Each bid must state the time required for the completion of the building, and a proper bond will also be required of the person who is awarded the contract.

The Board of Supervisors reserve the right to reject any and all bids.

By order of the Board, L. S. WALKER, Clerk Board Supervisors Shen. Co. Va.

THE AMERICAN ARCHITECT AND BUILDING NEWS.

VOL. XVI.

Copyright, 1881, JAMES R. OSGOOD & Co., Boston, Mass.

No. 466.

NOVEMBER 29, 1884.

Entered at the Post-Office at Boston as second-class matter.

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WE believe that our subscribers will welcome with the same cordial pleasure that we have in making it the announcement that during the coming year the value and interest of our illustrations will be increased by the regular issue of gelatine prints (heliotypes), from the natural object. As there are probably many who do not understand what is meant by a heliotype—we have encountered many who suppose our regular photo-lithographic illustrations must be heliotypes, since they are printed by the Heliotype Printing Company—we will explain that by "heliotype" is meant such prints as those of Trinity Church, Boston, the Farragut Statue, New York, the Fairbanks House, Dedham, Mass., the Town-Hall and Library of North Easton, Mass., which, with others, we have published from time to time, and we call their attention to the illustration of the Young Men's Christian Association Building in Boston, which is published in this issue. It is such prints as this, that we will next year issue, once each month, to those that are willing to pay for them. It is our sincere hope that a large portion of our subscribers will give their support to this new departure; for if it results as favorably as we now anticipate,—and present indications show that our hope already has a very substantial basis in fact—we can in the following year increase the number of heliotypes to the manifest increase of the value of the journal to our subscribers. In fact, in view of our facilities, there is no reason why the *American Architect* should not become the leading architectural journal of the world, so far at least as illustrations are concerned. The harvest within reach is inexhaustible, and all that is needful is the pecuniary support of our subscribers, to enable us to garner it into our pages.

WE trust it has not escaped the notice of our subscribers that we have recently permanently increased the number of our illustrated pages, and that they perceive in this an implied promise that as the journal grows and prospers, so shall it increase in volume and value to its subscribers. Any one who will look over a complete volume of the *American Architect*, and then compute how much he would have to pay for the same amount of matter made up into books of the ordinary form and size, will get an idea of how disproportionately small the subscription price is to the real value of the year's issue. One of the most peculiar foibles of human nature is the feeling that one of the most reasonable economies a man can practise is to stop his daily or weekly paper, but the falsity and wasteful unwisdom of such economy can probably be seen by any reasonable person who stops to think over it. It is pretty certain that in the case of an economical architect, for instance, although he might lay down fifty-one successive issues of an architectural journal in weariness and disgust, with the feeling that there was "nothing in them," yet he would probably find in the fifty-second something he would not have missed for many times the subscription price: something that may keep him out of a lawsuit, or help him in one he had begun; some fact which would prevent his building from falling down; some notice of a new competition, or some hint he could borrow from a brother arch-

itect's work, which would help him win. It really seems to us—as men and not as editors—that giving up one's daily or weekly paper is the last, and not the first, economy an active-minded man should practise.

IT is a gratification to us that we receive so many letters expressing satisfaction with the publication of "photo-caustic" prints—not unqualified and indiscriminate praise to be sure, but warm enough to satisfy us that we were right in not abandoning the process at the first onslaught of hostile criticism. We repeat that we do not use this process for the purpose of showing every detail of a building: that is beyond the possibilities of the process at present, and can be left to be shown in heliotypes, which will give all detail perfectly; but we do use it that our subscribers may gain a speaking acquaintance, as it were, with buildings which they may have heard of but never seen, or which they may desire to see more of, after having in this way gained an introduction. We should like to hear from the most competent authorities what they consider the relative architectural value of, for instance, the photo-caustic print of the Church of St. Nicholas at Ghent, and of Cotman's etching of St. Ouen, at Rouen, published in our last issue. We think the comparison would be a fair one, for we believe that few will deny to Cotman a very high rank as an architectural draughtsman. The increase of the number of illustrations has this personal interest to contributors: namely, that they will not have, hereafter, to wait so long for the appearance of accepted contributions, and will not have to take up the journal week after week only to find that "some other fellow's" design had been published instead of theirs—not because it was better, but simply because it had reached us sooner.

WE take sincere pleasure in learning of the complete success of the movement for establishing a western association of architects. The preliminary meeting, called in accordance with a suggestion made by the *Inland Architect* some months ago, took place in Chicago on Wednesday, November 11, and was attended by about one hundred and twenty-five of the best-known architects in Chicago, Milwaukee, St. Paul, St. Louis, and many other cities. A committee of Chicago architects received the visitors, providing generously for their comfort, and doing everything that could be done for the speedy transaction of the important business to come before the meeting. We publish elsewhere a report of the proceedings, and will not here anticipate it; but the feeling of the gentlemen present seems to have been unanimously in favor of the establishment of an association working in concord with the American Institute of Architects, but representing more particularly the interests of the profession in the West. Although the American Institute has had no more valued or useful members than many of the Western architects, its influence has been unquestionably too remote to give that moral support which professional men need. Even Eastern architects find the authority of the Institute less substantial, so far as regards its effect upon their individual business, than that of their local societies, and to their brethren in Chicago and St. Louis the quarterly meetings of the Trustees in New York are of still less practical service, so that the formation of a professional body in the West, which should unite the direct influence exerted by home associations with the authority conferred by a large membership, was, if not yet absolutely necessary, at least most fortunate; and the spirit in which the members of the Convention began their work of organization, as evinced in the admirable address of Mr. Burnham, the President, promises the best results in the future. We shall hope, long before the time of the next meeting, to note the good effect of the establishment of the Association upon professional interests in the West.

THE committee which has had in charge the matter of erecting in Boston a statue of Paul Revere has at last adopted a model, and will now begin the task of collecting the money necessary for carrying it into execution. Our readers will remember the competition for models which took place six or eight months ago, and unsatisfactory as were the terms offered to competitors, we are glad to be able to say that in the end the committee has proved loyal to the understanding

Mr. President and Brother Architects:—I think I can truly say that this is the proudest day of my life. I regard this compliment to respond

Nov 29, 1884

to the first toast as the greatest that I have ever received. The notification came rather late this evening, and I have prepared no speech and I hardly know what to say. I have jotted down some heads of ideas as I came here that struck me as proper to bring out on this occasion; and to premise I would say that I feel very proud to welcome this body of architects, not only of architects, but of representative men, for of all men in the world of any profession I regard the architect as a representative man. I feel proud to recognize such a handsome body of men. I refer to Mr. Hodgson. I have been wondering why I have been called upon; I think I see the reason. Knowing that I couldn't make a speech, they had a scheme here—others would follow me and would so easily eclipse me. That is the only solution that I can assign. But the sentiment of our organization is a grand sentiment—the Western Association of Architects—and I, having been in the West so long, have felt very much the want of such an association. I have felt very much the want of the sociability which this has brought out. I have felt very much the want of the support it gives in the performance of my duties as architect, the advice it affords; and this I hope is the commencement of an association that will last forever. I am surprised this evening to see so many architects here. It did seem to me, as we came filing in here this evening, that our western country was even larger than we had thought it, and I hope this Association will not be short-lived, and that it will be of great aid to us in our profession in every way.

Secondly, the teaching of this Association. This Association should be the means of teaching us not only in our professional duties, but in our duties as men, as honest men. For if any man should be honest it is the architect; for how many men trust their all to the architect in the preparation of plans for the erection of a home!

In the next place what shall constitute an architect worthy to be a Fellow of this institution? To begin with, he should be a scholar, versed in mathematics; he should be an artist; he should be a skilled business man. He should be a lawyer in one sense, for I know myself that usually an architect can make a better contract than any lawyer, because he understands all the points that need to be brought out in a contract. A member of this Association should be a gentleman; to be a member of this Association should be an entrée into society—it should be his all-sufficient credentials of manners.

Next I would say that the Association should be for the advancement of knowledge and for the instruction of its members. It should have its annual conventions, as you propose. At these conventions, lectures should be given and papers read.

And the next thing I would suggest would be the establishment of schools; not permanent ones, but annual schools, to meet say for one week each year, and at these schools the instruction should be practical and up to the times; papers by the best talent should be read to young men, and lectures should be given. And when young men attending these schools for a certain length of time can pass an examination by its board of directors or a committee appointed to examine them, they should have a certificate to practice.

The next thing I would suggest would be a library. I think that the Association should have such a feature at headquarters, and I would suggest that a library be started and books and papers collected where every member of the Association can have an opportunity to examine them. Also an art-gallery. If every architect here would give a picture, what a gallery we could furnish. To me it would be full of interest. I think we could have one of the largest art galleries in the United States in a very short time. Our friend, Henry Lord Gay, who has established an exhibit here, has set a good example, and a few of us have contributed a few designs there for the edification of our visiting friends.

The next is fees and competition. Here is a very delicate matter to touch, and I would say to the Association that it must go slow in this regard, because I am of opinion that whatever fee we establish, whatever percentage, every member of the Association must live up to it, or else get out. For myself, I have always maintained a fee that would satisfy the *American Architect*, and I believe I stand by it to-day, and I want to say for the edification of younger brethren that it is better in the end than to cut rates.

I suppose the visiting architects have enjoyed the afternoon in visiting the buildings, boulevards, etc., and to them I want to say one thing in reference to the officers of this institution. We have had heretofore a Chapter of the American Institute of Architects; we have tried to carry that along, but it has been a perfect failure—a perfect failure—and I have rejected it as detrimental to the architectural profession; for this reason, that the majority of our architects did not attend. I attributed that to the fact that the American Institute of Architects really seems to be an Eastern institution. I feel that we have not been treated fairly in the West. I feel that we have not been represented in the West, and I don't blame the American Institute of Architects, for they have been a head centre of architecture in this country.

I would recommend, in electing officers, that we old fellows stand behind and elect young men—ambitious men, who can give time to the cause; especially the Secretary, who needs to be a live man, who will attend to the duties involved. In reference to the location of the officers, the Convention will have to decide. I have heard several opinions on that subject.

The second toast was "Architectural Literature," response by R. C. McLean, of the *Inland Architect*, of Chicago, who said that one of the earliest Inland Architects and Builders was the beaver, who was followed quickly by the Indian; then by the pioneer with the log hut; then the shingle palace, and finally such ten-story fire-proof costly structures as are to be seen to-day in progress in the immediate vicinity of this banquet-hall, etc. An interesting address, which we regret has not yet been fully reported.

The third toast was "The American Institute of Architects," the response to which, by Mr. W. L. B. Jenney, of Chicago, was published in our last issue.

Among other toasts was "The Dwelling," response by John W. Root, of Chicago. Of this very interesting speech we can give but an outline.

Of the earliest dwellings no records exist. We have no knowledge

of the plans and style of the house in which our first parents lived, when they were raising Cain, but we feel sure that the element of *Madame* in the planing of the dwelling is of very modern introduction.

The architect at work is startled by the rustling of silk, and the odors of sweet scents. A lady enters, unfolds a sheet of delicately tinted gilt-edged paper, and displays a plan; just what she desires for her house.

There are large numbers of closets, and many rooms; figured usually about 25 feet square. A space 18 inches by 4 feet is devoted to the stairs.

There are to be towers and turrets, bay-windows, loggias, verandas, stone steps, hard-wood floors, fine mantles, a grand staircase, timber ceilings, recessed sideboards, and cabinets, stained-glass, etc.

The cost of all this magnificence is to be \$4,000. The lot 25 feet wide, the plan called for 63 feet, etc. The architect condenses, cuts down, omits, and after long labor produces a house, but a small part of what was wanted, and yet to cost much beyond the \$4,000.

The poor architect is of course to blame for exceeding the instructions as to cost, and for not giving *Madame* the half she told him she must have.

Mr. Root's description of the modern architect's struggles with *Madame*, his female client, were exceedingly amusing, and kept the audience in an uproar.

The other toasts were "The Office," "The Store," "Fees and Clients," responses respectively, by W. D. Falls, Chas. R. Ramsey, St. Louis, and C. H. Lee.

At midnight the party dispersed, to re-assemble Friday morning for the completion of some unfinished business. The most important being the report of the Committee on Fees and Competition, John P. Root, Chairman; and Messrs. Charles H. Lee, E. O. Falls, and Charles K. Ramsey, the report reading as follows:—

Resolved, That in his relation to clients and contractors, the architect should be an impartial arbitrator; and under no circumstances should he act as a special pleader for either party.

Resolved, That the relations between architects and clients should be confidential, and that no architect is worthy of employment who is unworthy of trust.

Resolved, That it is the sense of this Association that the architect should in all cases superintend the work designed by him.

Resolved, That in cases where for special reason the architect does not superintend the work designed by him his responsibility ceases with the delivery and acceptance of the plans, unless by expert testimony it can be proved that the plans were defective.

Resolved, That the President, Secretary, and Treasurer of this Association constitute a board of arbitration, whose duty it shall be to adjust all questions in dispute between members of this Association and their clients which shall be submitted to this board.

Recognizing the desirability of uniformity throughout the country in the matter of fees, and having full confidence in the action of the American Institute of Architects in this respect.

Resolved, That this Association adopt the schedule of fees recently adopted by the American Institute, and that the Secretary of this Association mail to each member a printed copy of this schedule as soon as practicable.

Resolved, That no architect should enter a competition for any building or other work, unless the decision of the competition shall be made by recognized experts.

Which after long discussion was adopted.

A permanent committee was then appointed to draft a By-Law on the subject, the same to be printed, and a copy sent to each member. Action to be taken at next annual meeting.

The Convention concluded its session by the election of the officers of the Western Association of Architects for the ensuing year, as follows:—

President: C. E. Illsley, of St. Louis; *Secretary*: Henry Lord Gay, of Chicago; *Treasurer*: D. Adler, of Chicago.

Mr. Illsley spoke a few words of thanks:—

Gentlemen of the Convention:—My friend, Mr. Ramsey, told me to have a speech ready, but I didn't really think there would be a chance for it, and I thought it would be spoiled if I got it ready. I would not be so egotistic as to think that this is an honor rendered to me, but with your permission I will take it as a compliment to St. Louis. I used to be in Chicago, and I will consider myself as a sort of connecting link between the two cities. When I came up to Chicago I think the time not distant, if indeed it has not already arrived, when the great glory of this lake will be, not in its size, but because Chicago is on it. Now we hope the time will come, after a while, when it will be said of the Mississippi, not merely that it is the longest river on the globe, or the greatest river, if you please, as the chief thing said about it; but that it is the river on which St. Louis stands. Gentlemen, one of the principal things, after all, that make a city is the quality of the buildings which its architects put up. That is the thing above all others that draws me up to Chicago every time I can get here. Now, when you come down to St. Louis, we expect to get the benefit of a good deal of the inspiration that we have received from you here, and that will give us great help in our work of making St. Louis the great city we expect it to be. I have no speech ready to make. I thank you in the name of St. Louis for this honor.

The meeting adjourned to meet one year hence in St. Louis.

The Convention was an undoubted success; the attendance was not less than one hundred and fifty architects, probably more. The utmost harmony and good fellowship existed throughout, the members of the Institute and others exerted themselves whenever the opportunity offered to obtain an expression of good feeling, and the hope was expressed that sooner or later some method might be arranged whereby the new local Association could be united to the National one. Such expressions were always well received, and we may hope that this Convention will result favorably to the profession.

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(Reported for The American Architect and Building News.)

BUILDING PATENTS.

209,402. BURGULAR-ALARM.—Benjamin S. Barck-
all, Indianapolis, Ind.
308,060. BASH-FASTENER.—Issao N. Baek, Elgin,
Ill.
308,067. BRUTTER-WORKER.—Henri Camus, St.
Louis, Mo.
308,068. COMPOSITION-PAINT FOR SHIPS' BOTTOMS.
DRY-DUCKS, ETC.—Jas. H. Dilke, Jersey City, N. J.
308,073. FURNACE.—Alfred Hopkins, Bridgeport,
Conn.
308,111. ART OR PROCESS OF AND COMPOSITION
OF AN ARTIFICIAL ARTIFICIAL STONE.—Jas. H. Tricker,
Hamilton, Ontario, Can.
308,126. DOOR-HANDLES.—William Barry, Syracuse,
N. Y.
308,128. SHUTTER-FASTENER.—Issao Brooke,
Pottsville, Pa.
308,134. MITERING-MACHINE.—Paul Caslin, San
Francisco, Cal.
308,143. EXPOSED-PAINTERS' SIZING.—Hubert De
Borja, New York, N. Y.
308,145. TRIVY-SQUARE.—William B. Edwards,
Unionville, Conn.
308,161. DECORATIVE PAINTING ON GLASS.—Emile
F. Jirault, New York, N. Y.
308,177. STAY-HOLDER FOR SLIDING-DOORS.—Emile
Laloux, Syracuse, N. Y.
308,179. FIRE-ESCAPE.—Henry T. Linnenbrink,
Rochester, N. Y.
308,181. WOOD-FLOORING.—Dudley J. Marston,
Salisbury, Mass.
308,182. SELF-CLOSING FAUCET.—Timothy M.
Hugb, Boston, Mass.
308,191. SHUTTER-WORKER.—Miles E. Petersen,
Chilton, Wis.
308,217. CIRCULATION-PIPE FOR THE TRANSMIS-
SION OF HEAT.—Berhard Kober, Drossau, Saxony,
Germany.
308,218. MITER-MACHINE.—Jared Stilly and John
H. Loomis, Lebanon, Pa.
308,228. CASING FOR PIPES.—James F. and John L.
Wood, Wilmington, Del.
308,246. SCREW.—John Pearson, Birmingham,
County of Warwick, Eng.
308,247. SCREW-DRIVER.—John Pearson, Bir-
mingham, County of Warwick, Eng.
308,251-253. MANUFACTURE OF SPIKES AND
MACHINE THEREFOR.—Howard Gross, Chicago, Ill.
308,279. FIRE-ESCAPE.—Henry Roach, Quins-
borough, Ont.
308,287. TIRE-MEASURER.—Frank M. Slagle, Atto-
lewa, Iowa.
308,290. HOT-AIR GENERATOR.—George S. Sperry,
New Richmond, Wis.
308,293. BRICK-MACHINE.—Charles L. Carme-
ch, Chicago, Ill.
308,294. STOPPER IN WAIR-BOWLS, SINKS AND
BATH TUBS.—Mathew F. Deagan, Chicago, Ill.
308,317. CRIMINY-COWL.—Martin Ludwig, James
E. and John S. Barber, Beloit, Kans.
308,321. JAMES-FIRE-ESCAPE.—John J. Oros, Chi-
cago, Ill.
308,332. RABBIT-PLANE.—Justus A. Treat, N.
Orleans, La.
308,351. LADDER.—Edward F. Wright, Portland,
Oregon.

SUMMARY OF THE WEEK.

Baltimore.

CLUB-HOUSES.—Frank F. Davis, architect, has prepared plans for the Maryland Bicycle Club, for a three-story brick building, with bluestone facings, 21 x 84, cor. Mount Royal Ave. and West St., to cost \$10,000; J. W. James, builder.

MONASTERY.—The corner-stone of the Passionist Monastery of St. Joseph, two miles west of this city, was laid November 16.

CHURCHES.—John C. Bruens, architect, has prepared plans for Virginian ladies, Esg., for a four-story brick, stone, and terra-cotta building, 26 x 63, cor. Lexington Ave. and E. 10th St., to cost \$20,000; J. W. James, builder.

BUILDING PERMITS.—Since our last report fourteen permits have been granted, the more important of which are:

Freud, Stums, 5 three-story brick buildings, w. a Druid Hill Ave., com. n. w. cor. Laurens St.; and 8 two-story brick buildings, n. Laurens St., bet. Druid Hill Ave. and E. 10th St.

John F. Nelker, 3 three-story brick buildings, n. cor. New and Jasper Sts.

Frederick J. Hager, 2 three-story brick buildings, e. Pennsylvania Ave., bet. Orchard and Elldie Sts.

Wm. F. Davis, three-story brick building, n. Montgomery St., bet. Williams and Johnson Sts.

Electric Light and Heat Co., 2-story brick building, 27 x 36, n. e. cor. Holliday and Centre Sts.

John Hubner, 5 three-story brick buildings, w. Fremont St., s. of Lafayette St.

Frederick Schmidt, 2 three-story brick buildings, n. a Cross St., w. of Eldridge St.

Boston.

BUILDING PERMITS.—*Beavington St.*, Ward 14, for H. Hudson, Jr., wood stable, 15' x 15', pitch; A. J. McLaugh, builder.

Houghton St., near Raymond St., Ward 23, for F. W. Taylor, wood dwelling, 28' x 36', pitch; H. F. Oakman, builder.

Gilbert St., near Raymond St., Ward 23, for T. Kluebs, wood storage, 15' x 18', pitch; J. Linppold, builder.

Lea St., near Sarin Hill Ave., Ward 24, for S. M. McNeill, wood dwell., 24' 8" x 60', pitch; McNeill Bros., builder.

West Cottage St., cor. Brook Ave., Ward 20, for W. W. Brown, wood dwelling, 24' x 36', flat; W. W. Dromey, builder.

Centre St., opp. Pond St., Ward 23, for A. French, wood dwell., 29' x 34', flat.

Cupler St., 30' x 24' x 21' 3", for Mrs. O. H. Ernst, wood dwell., 28' 4" x 21' 3", pitch; S. D. Gates, builder.

School St., No. 145, Ward 23, for Mrs. O. H. Ernst, wood dwell., 28' 4" x 21' 3", pitch; S. D. Gates, builder.

Chester St., near Gardner St., Ward 23, for Chas. Hsley, wood dwell., 12' 6" x 17' and 17' x 5', pitch; P. H. Pritchett, No. 211, 219, 221, and 223, and 225, for J. H. Dwyer, 4 wood dwell., 28' x 40', flat; McDonnell & Tobin, builders.

Ballard St., near Custer St., Ward 23, for Jno. Gardner, brick dwell., 22' x 38', pitch.

W. 1st St., No. 10, W. 1st St. & W. Holmes, brick apartment-house, 15' x 65' 6", flat; Holmes Bros. builders.

Alvin St., near Eaton St., Ward 9, for City of Boston, brick building and wood storage, 28' x 55', flat; H. B. Mayers & Co., builders.

Brooklyn

BUILDING PERMITS.—*Stagg St.*, n. e. 200' e **Graham Ave.**, 4 four-story brick tenements, tin roofs; cost, each \$10,000; owners, H. and H. Itelners; **Stagg St.**, near **Graham Ave.**, architect, E. F. Taylor; mason, **McLain**; **Stagg St.**, carpenter, **Wm. Lamb**; **Stagg St.**, 2 two-story brick dwellings, tin roofs; cost, \$1,000; owner, Nellie **McLain**; 2nd **Mecon St.**, architect and carpenter, **T. S. McLain**; mason, **S. S. McLain**; **Stagg St.**, 2 two-story brick dwellings, tin roofs; cost, \$1,000; owner, **Thomas Philabrido**; 217 **Seventeenth St.**, architect, **B. S. Brown**; builders, **Wm. and Thos. Brown**.

North Second St., s. e. 75' w **Graham Ave.**, three-story frame tenement, tin roof; cost, \$5,000; owner, **John P. Connolly**; cor. **Graham Ave.** and **North Second St.**, architect, **John Taylor**; builders, **Jacob Bechoh** and **Howard Boyce**.

Sandford St., No. 102, w. s. 110' e **Park Ave.**, three-story frame tenement, tin roof; cost, \$3,000; owner, **John H. Sandford**; architect, **A. Herbert**; builder, **John Wilton**.

Hancock St., Nos. 206 and 208, s. e. 210' w **Marion Ave.**, 2 three-story brick dwellings, tin roofs; cost, each \$10,000; owner, **John Hancock**; architect, **John Jefferson**; architect, **J. A. Schellenger**.

Central Ave., s. e. 40' e **North Second St.**, 3 three-story frame tenements, tin roofs; cost, \$13,000; owner, **Hubert Schellenger**; architect, **E. F. Taylor**; **Polk St.**, builder, not selected.

Denn St., s. e. 329' w **Franklin Ave.**, two-story frame stable, tin roof; cost, \$4,500; owner, **Budweiser Brewing Co.**; 916 **Denn St.**, architect, **J. Plaut**; builder, **John Plaut**.

St. Mark's Ave., s. e. 239' e **Kington Ave.**, three-story brick dwell., tin and slate roof; cost, about \$10,000; owner, **Wm. Eggert**; architect, **Wm. Lexington**; carpenter, **John Hansen**; builder, **P. McAlinn**; carpenter, not selected.

South Fourth St., n. e. cor. **Seventh St.**, 2 four-story brick stores and tenements, tin roofs; cost, each \$9,000; owner, **John F. Hansen**; architect, **John Hansen**; architect, **E. F. Taylor**; builders, **Thos. Gibbons** and **Samuel Hough**.

Chancery St., s. e. 176' e **Fulton Ave.**, two-story brick dwell., tin roof; cost, \$1,000; owner, **John Jacob Fritz**; 110 **Hudson St.**, **New York** builders, **Ernest Sutcliffe** and **Jacob Pirrung**.

Sixth St., s. e. 147' 10" w **Sixth Ave.**, 2 two-story brick dwellings, tin roofs; cost, \$1,000; owner, **John Jacob Fritz**; architect and carpenter, **Thos. Busler**; 371 **Sixth St.**, mason, **Thomas Nash**.

Marcy Ave., s. e. 224' e **Howard St.**, 5 two-story brown-stone dwell., tin roofs; cost, each \$5,000; owner, **John H. Busbult**; builders, **W. & T. Lamb**; **Jenkins** & **Gillies**.

Mrs. B. Phelan, three-story dwell., 61 Sedgwick St.; cost, \$5,000.

The Board of Education, three-story school-house, cor. Lincoln and Division sts.; cost, \$31,000; architect, J. J. Connelley; builder, Geo. Peterman.

Jas. Nark, three-story store and flats, 808 Ashland Ave.; cost, \$7,000.

H. H. Kohlman, two-story dwell., 2216 Prairie Ave.; cost, \$10,000; architect, S. M. Randolph.

J. Downey, 6 two-story dwells., cor. Honore and Adams Sts.; cost, \$30,000; architect, M. L. Boers.

M. Cunningham, two-story dwell., 2529 Sanger St.; cost, \$5,000; architect, J. F. Doerflinger.

Annie L. Garfield, two-story dwell., 46 Groveland Plk.; cost, \$10,000.

C. W. Farrington, three-story flats, 3135-3139 Michigan St.; cost, \$18,000.

L. Butler, three-story school-house, 607-609 North Franklin St.; cost, \$10,000; architect, G. Vigenet; builder, J. J. Connelley.

Geo. Marshall, two-story dwell., 86 LaSalle St.; cost, \$6,000; architect, W. G. Williamson; builder, C. A. Moses.

Samuel, two-story dwell., 600 West North Ave.; cost, \$5,000; architect, H. Sierke.

L. C. Platt, 2 two-story dwells., 670-672 West Adams St.; cost, \$8,000; architect, J. Flannery.

W. H. Smith & W. H. Hoyt, 2 two-story dwells., 767-769 West Jackson St.; cost, \$8,000.

Geo. Edwards, 5 two-story dwells., 307-313 Maxwell St.; cost, \$15,000.

W. H. Hoyt, one-story dwell., 371 Wells St.; cost, \$2,500; builder, Chas. Thibault.

W. M. Hoyt, one-story addition to flats, North Water St.; cost, \$10,000; architect, J. B. Baughly.

C. W. Woolman, two-story flats, 416 West Fifteenth St.; cost, \$8,500.

New England Insurance Co., five-story store, 18-20 Van Buren St.; cost, \$55,000; architects, Cobb & Frost.

Wm. Wore, two-story dwell., 441 Dayton Ave.; cost, \$4,000.

Wm. Love, 12 two-story dwells., Vernon Ave.; cost, \$5,000; architect, W. M. Clay.

A. W. Waldo, two-story dwell., 281 Webster Ave.; cost, \$3,000.

The Board of Education, four-story school-house, cor. Fifteenth St. and Wabash Ave.; cost, \$65,000; architect, J. J. Flannery.

J. Brown, three-story dwell., 85 West Huron St.; cost, \$6,000; architect, C. O. Hansen.

Denver, Col.

BUILDING PERMITS.—W. H. Lawrence, Pearl St., two-story brick dwell.; cost, \$1,600; F. E. Eubrooke & Co., architects.

E. & S. J. Anthony, Curtis St., three-story brick dwell.; cost, \$3,000; E. Anthony, architect.

Chamber of Commerce building, Lawrence St., three-story brick dwell.; cost, \$20,000; M. H. Seelye, architect.

City District, No. 2, Eleventh St., two-story brick school-house; cost, \$21,000; Wm. Quayle, architect.

H. L. Clapin, Welton St., three-story brick dwell.; cost, \$1,500; Varney, Clark & Co., architects.

W. C. Varney, Chapman & Co., Broadway, two-story brick block of 5 dwell. and 6 stores; cost, \$25,000; Fred. A. Hale, architect.

Anderson & Sons, Stout St., three-story brick dwell.; cost, \$5,000; E. P. Brink, architect.

Thos. S. Clayton, Sherman Ave., two-story brick dwell.; cost, \$8,000; F. E. Eubrooke & Co., architects.

United States Custom-House, cor. Arapahoe and Sixteenth Sts.; M. E. Hill, architect.

J. A. Struss, Broadway, two-story business building; cost, \$14,000; W. H. Nichols, architect.

R. R. Fraser, Daffey St., two-story brick dwell.; cost, \$1,000; Fred. A. Hale, architect.

W. L. Luthin, cor. 10th and 11th Sts., two-story brick dwell.; cost, \$1,000; J. S. Roschlaub, architect.

Madame Jennie Hollatz, Holladay St., three-story brick apartment-house; cost, \$11,000; Frank Eubrooke & Co., architects.

Cooper, Grant Ave., two-story brick dwell.; cost, \$12,000; M. Koenig, architect.

S. C. Shepard, Grant Ave., residence to dwell, no cost; M. Koenig, architect.

W. C. Varney, Broadway, two-story brick dwell.; cost, \$1,000; Fred. A. Hale, architect.

New York.

Plans have been filed for a new passenger-depot, to be erected just east of the Grand Central Depot, in Forty-second Street, by the New York Central & Hudson River and the New York & Harlem Railroad Companies. The building will have a frontage of 91' in Forty-second Street, its depth will be 659', and its general construction will be similar to that of the Grand Central Depot, the front being made of brick and cast-iron, with stone trimmings. The estimated cost is \$4,000,000.

[illegible]

Chicago.

BUILDING PERMITS.—N. Behrens, two-st'y flats, 128 North Twenty-first St.; cost, \$3,000.

t, if not construction, consists in exaggerating given to stone and bringing it to a smoothness. In the latter part of the much of the Renaissance architecture whole surface is rubbed, and no trace of completeness of workmanship was also to be seen in Egypt, and wherever we encounter it made sensible of the immense pains and toil by the builders upon their walls; and effect is produced by the selection of material surface and a good color, like choice bricks, and joints, and one way of marking the joints more conspicuous than they naturally are, and a more strongly-marked channel. In the Renaissance, this accentuation is practised often with great frequency; and to which we have given the absurdly exaggerated, is one of the sources of the great trees and houses. There are many other directions to which I have not time specifically mention that any treatment of a wall which its construction evident almost invariably to speak, a spontaneous grace to buildings, perceptible than in the half-timbered houses of early timber walls of houses in Switzerland we pass to our second group of methods of construction—methods which mask or conceal the face of a wall is almost invariably shrouded in, but even the outer face is as often as not a structure. I have already spoken of the wall have pointed out that it may, and often to resist weather. But for one case in legitimate object you will find scores when appearance, and this at every period of the wall in fifty that is built through its entire face as on its outside—nay, I have known durable materials faced with something trustworthy, like a wall of good sound London red or white Suffolk bricks. I am as a shame,—it used to be very much more complete truth in architecture than it now is, in any way against good taste in using the stone for the best and the other fit the wall to make a solid structure. Where London, is very costly, as is the case with the outer face of some Italian churches, it has suppose, always will be, to use it for the face this is done it is not infrequently the case to used as to give the idea of enormous which I do not advocate or recommend. the construction up is in case a wall with or. This is often structurally of great assistance, and if so done as not to imitate granite. Many English country churches have been covered with plaster from that day, and now find themselves exposed and of their proper garment, all the seams and rough masonry brought to view, their quarters of an inch from the general surface not what the original builders intended. mention I may just name a curious one, common, of building walls of timber framing and stone, so shaped and fitted together as to any of the apparently brick walls in Hasted's only wood-work tiled.

—In the French system of notation, which is used, it is a thousand millions; but the English billion to a million millions. Sir Henry Carter, who is in the habit of occupying his moments for the amusement of his grand-son, some idea of the immensity expressed in this successively as a measure of time, of length, of the second as the unit to be used in his first in the startling assertion that a billion seconds the commencement of the Christian era, nor that number. A billion seconds make 31,155,360 years, 15 minutes, 5 seconds. In regard to length, English sovereign, a coin of the size of a half-penny sovereign would be long enough to pass for or, supposing all these coins lay side by side, it would form about the earth a thin wire. This same chain, were it stretched in a line a fraction over 18,228,445 miles in extent, Sir Henry chose for a unit a single sheet on which the London Times is printed, a measured and thirty-third of an inch in thickness, pressed out flat and piled vertically attain the altitude of 47,424 miles. — Engineer

CAST-IRON IN BUILDINGS.



large railway bridges were projected, a Royal Commission was appointed to inquire into the use of cast-iron and wrought-iron for the purpose. The risks arising from the vibration of cast-iron caused by the constant passing of trains, and from the occasional derailment of a locomotive or a line of carriages, were considered, and it was supposed that cast-iron in those contingencies was less suitable than wrought-iron. The Britannia Bridge, on the other hand, made it plain that an immense structure could be constructed of plates and angle-irons with as much ease as a house was built of bricks, and of a strength that was equal to every reasonable test. The engineers of that bridge, Stephenson, Fairbairn, Hodgkinson, and Clark, became, as it were, the lawgivers on iron construction, and as they were supposed to be in favor of wrought-iron exclusively, it was made the favored material. A little inquiry would have shown that Stephenson, who was the chief among them, had no partialities. If he used wrought-iron to cross the Menai Straits, in a no less remarkable work, the High-Level Bridge at Newcastle-on-Tyne, he gave the preference to cast-iron. Fairbairn, however, found it more convenient to undertake contracts for wrought-iron girders, and, as he was a rather productive writer, his literary influence was widespread, and was employed in advocacy of the material. Wrought-iron was also supposed to offer more facility for designing new types of bridges, and in consequence a great many engineers were attracted by it. During the last thirty years very few cast-iron bridges of any importance have been erected in England, while the varieties of those in wrought-iron are almost countless.

Fairbairn was better known as a practical engineer in connection with mills than with railways, and as soon as, by a piece of sharp practice, he had patented a riveted girder, he was able to introduce a great many of them into buildings. About the same time another influence came into operation against cast-iron. In 1846, the carpenters of Paris organized a general strike, and architects and builders were in consequence compelled to substitute iron for wood in floors and roofs. Various sections of rolled girders were tried, and eventually the I-girder was evolved. The employment of one with a bearing of 18 feet in a house in the Boulevard des Filles du Calvaire, in Paris, about 1849, was among the most memorable events in the history of modern building construction, and cast-iron beams were henceforth superseded. They had been in use from 1801, when Boulton & Watt arranged the iron-work for Phillips & Lee's mill in Manchester.

There is no denying the convenience and advantages of wrought-iron, whether in the form of rolled joists or riveted girders. But let us be just to beams in the other material. When cast-iron lost its position little was alleged about deficient strength or liability to collapse through invisible flaws. The experiments on it produced remarkable results. Thus, for example, it was ascertained by the Royal Commission on the Application of Iron to Railway Structures that when cast-iron bars were exposed to successive transverse blows, each blow producing one-third of the ultimate deflection (or deflection immediately before breaking), they bore four thousand such blows without having their strength impaired. It was likewise found that when bars of cast-iron were exposed to successive deflections by means of a revolving cam, they bore one hundred thousand such deflections without any impairment of strength. These figures show that cast-iron does not so readily succumb even under variable loads which are frequently applied and removed.

The bridges which were constructed in days when wrought-iron was not recognized as a building material are also evidence of the endurance of cast-iron. The Coalbrookdale Bridge over the Severn, designed by Abraham Darby, was constructed in 1777. Telford's Bridge, near it, at Buildwas, was finished about twenty years afterwards, and his Waterloo Bridge at Bettws-y-Coed in 1815. The big Sunderland Bridge, 236 feet span, dates from 1796, and bids fair to last long, although it is only the work of an amateur engineer. It was designed by the rebellious staymaker, Tom Faine, and was originally put together at the Yorkshire Stingo in Lissou Grove. Southwark Bridge has sustained the wear and tear of metropolitan traffic

from 1819. All those bridges are in positions which are exceptionally trying, and their existence is a refutation of the suspicions which some people have entertained respecting the strength of cast-iron. If the material can withstand the variety of loads which pass over Southwark Bridge, and all variations of atmospheric condition, there need be no fear about its security within a building.

With such precedents, the Corporation of Middlesbrough may have full confidence in the fitness of cast-iron to support the floor of their great hall, no matter how crowded it may be. Nevertheless a good deal of credit is to be given to Mr. Hoskins for the experiment, which has been so well carried out by Messrs. Dennett & Ingle. It would have been possible to have used wrought-iron beams for the purpose, but apart from questions of expense and headway, the appearance of the room must have been very different. Experience has shown that it is almost impossible to give an architectural character to rivetted or rolled girders. The utmost that can be done is to decorate them with painted ornament, or to perforate the web-plate with patterns. But cast-iron is more tractable and lends itself to design. There is of course a risk that it can be made into forms which are more applicable to wood or stone, but in good hands there need be no want of fitness in the ornamentation. The material has been so little used, it is not surprising that occasionally there should be a doubt about the artistic treatment that is most appropriate to it. The late Owen Jones did a good deal towards the creation of a style that was adapted to cast-iron. He seemed to keep in view the crystalline nature of the material as a fundamental idea, and to have restricted himself to geometrical patterns which would be in keeping with extreme rigidity and power to resist compression. On the other hand, there are structures of cast-iron, which are so profusely ornamented with imitations of carving as to suggest only the ease with which the metal can be melted and run into moulds. The spandrels of railway bridges might be cited as examples which show that more was thought of the flowing curves of the "filling in" than of lines which might express construction.

It is not to be inferred from what we have said that we propose a substitution of cast for wrought-iron in buildings. All we venture to imply is that both kinds of girders have their uses, and that by restricting himself to horizontal beams in wrought-iron, the architect very often adds to his difficulties in his endeavors to produce effect; while cases often arise like the Middlesbrough Town Hall, where cast-iron demands a preference before all other materials. — The Architect.

THE WESTERN ASSOCIATION OF ARCHITECTS.

CONSTITUTION.

SECTION I. The name of this organization shall be the WESTERN ASSOCIATION OF ARCHITECTS.

SEC. II. The objects of the Association are: To unite in fellowship the architects of the United States, to combine their efforts so as to promote the artistic, scientific and practical efficiency of the profession, and to cultivate and encourage the study of kindred arts.

SEC. III. This Association shall consist of Fellows and Honorary Members.

SEC. IV. Any architect practising his profession in the United States may become a Fellow of this Association. All members in good standing in any State Association organized under the laws of that State, also all members of the American Institute of Architects who shall become subject to the constitution of the Western Association are by virtue of such membership Fellows of this Association.

SEC. V. The officers of this Association shall be a president, a secretary, a treasurer, and as many vice-presidents as there shall be State associations, the president of each State association being a vice-president of this Association.

SEC. VI. It shall be the duty of the President to preside at all meetings of the Association, but in his absence the Vice-President of the association of the State in which the meeting of this Association shall be held shall preside.

It shall be the duty of the Secretary to take the minutes of the meetings, and conduct the correspondence of the Association, subject to the Board of Directors.

It shall be the duty of the Treasurer to collect all funds, and disburse the same on the order of the Secretary, when countersigned by the Chairman of the Board of Directors.

SEC. VII. This constitution may be amended by a two-thirds vote of the Fellows present at any regular meeting.

BY-LAWS.

ARTICLE I. The annual meetings of this Association shall be held upon the third Wednesday in November, and at such place as shall be designated by a majority vote of members present at the previous meeting.

ART. II. The meetings of this Association shall be conducted in accordance with "Robert's Rules of Order."

ART. III. The Board of Directors shall consist of five Fellows, who shall have the care of the property, and management of the general welfare of this Association, and shall report at such regular meeting.

ART. IV. With the exception of Vice Presidents, all Officers including Directors shall be elected annually by a majority ballot-vote at an annual meeting of this Association.

ART. V. All papers, books, and other records shall at all times be open to the inspection of the Fellows of this Association.

ART. VI. Candidates for membership as Fellows of this Association shall pay an initiation fee of five dollars, excepting members of State Associations or of the American Institute of Architects, who shall be admitted free.

ART. VII. All Fellows of this Association shall pay an annual dues of two dollars.

Dec 6, 1884

ART. VIII. All applicants for membership as Fellows of this Association shall be referred to the Board of Directors, who shall investigate their standing, and if found worthy, recommend them for election at the next meeting.

ART. IX. Twenty Fellows shall constitute a quorum for the transaction of business.

ART. X. The By-Laws of this Association can be amended at any meeting by a vote of two-thirds of the Fellows present.

OUR STABLE COMPETITION.

BALTIMORE, MD.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—As you do not mention what you wish the drawings to be finished in; will you kindly inform me if color will be allowed, or whether they must be finished entirely in India ink?

Yours truly, ARCHITECT.

[DRAWINGS ARE TO BE RENDERED IN PEN-AND-INK.—EDS. AMERICAN ARCHITECT.]

LEARNING WITHOUT TEACHERS.

KANSAS CITY, Mo., November 18, 1884.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Gentlemen,—Please inform me through your valuable journal, if a student can learn the orders of architecture, so that he can apply them to buildings, without the aid of an instructor; if so, please name an English book that treats best on the subject; I have a book, but it gives no details, and I cannot see how I can practise the orders, especially the capitals, without details. Also please state the best book that treats on sketching for a student?

By answering the questions, you will oblige

FRANK MAURICE.

["Nicholson's Cyclopædia of Architecture," "Gail's Cyclopædia of Architecture," "The Architectural Director," "Batty Langley's Builder's Treasury," "Chambers' Civil Architecture," "Nicholson's Students' Instructor," "Nicholson's Treatise on the Five Orders," and several other books, give details of the orders. Nicholson's books are perhaps the best of the cheaper ones. To learn sketching without a teacher, get "Buskin's Elements of Drawings," practise faithfully all the exercises in it, and then sketch from nature as much as possible, copying a plate in one of the architectural journals occasionally, to get ideas of rendering forms and textures.—EDS. AMERICAN ARCHITECT.]

AN ARCHITECT'S CHARGE QUESTIONED.

November 3, 1884.

TO THE EDITORS OF THE AMERICAN ARCHITECT:—

Dear Sirs,—I desire to submit for your opinion the following case.

A club in this city decided last year to build a house for its occupation. In the ranks of the club was an architect. This architect submitted plans for the approval of the club. The club finally appointed a committee to take entire charge of the erection of the building (including the acceptance of suitable plans).

At the outset this committee was informed by the above-named architect, that no charge would be made for his services.

At the first meeting of this committee, the plans came up for approval, and some radical changes were suggested, to which the architect replied, that the change of plan suggested would put him to considerable trouble and expense, and the fact that the architect was to make no charge for his services, had its influence in inducing the committee to waive their views regarding the change suggested, and the plans as presented were adopted.

The building has been erected on the original plans presented, and it now transpires that the adoption of the change suggested at the first meeting of the committee would have been greatly to the advantage of the club.

Six months after the completion of the building, the architect presents a bill for "incidentals" (no charge being made for services), for over two and three-quarters per cent on the entire cost of the building. This bill is a complete surprise to each member of the Building Committee, as well as to every member of the club.

Will you kindly inform me what you consider the rights and duties of the club in the premises?

There is no one in the club versed in the matter of building, but it does seem to me that the architect having informed the committee that he should make no charge for his services, and the committee understanding that this meant no charge of any kind, and his assertion that a change of plan would put him to considerable expense and trouble, would seem to indicate that at that time he did not intend to make any charge of any kind; and further his presenting no bill until six months after the occupation of the building, would tend to confirm the view I take, that when he proposed to make no charge for his services, he did intend to convey the impression of no charge of any kind. Respectfully yours,

ENQUIRER.

[We think there must have been some misunderstanding as to the architect's intention. It is hardly possible that a professional man should have intended to present his club with the whole time, responsibility and money required for designing and supervising the erection of a club-house. Even if an inexperienced and over-generous member should have done so, how should rule in clubs of gentlemen to take him at his word, and exact from him the literal fulfilment of his rash offer, if it involved, as it certainly would, labor and expenditure on his part which he could not have foreseen. Our advice to the club would be to pay the architect his two and three-quarters per cent, and to be thankful that it contained a member so liberal as to make a contribution to the new building of the remaining two and one-quarter per cent.—EDS. AMERICAN ARCHITECT.]

NOTES AND CLIPPINGS.

THE FIRST MAKER OF PLATE-GLASS.—Plate-glass was discovered in an accidental way, in 1688, by a man named Thevart. It is attributed to the breaking of a vessel containing melted glass, a portion of which found its way under a large flag-stone, which, when subsequently removed, was found to cover a plate of glass. This suggested the idea of casting glass in plates.—*Philadelphia Bulletin*.

HEAVY CHAINS.—Two heavy chains of the following dimensions, for use on the large floating bridge connecting Portsmouth and Gosport, have recently been made in England: each chain was 610 yards in length, consisting of nearly 6,000 links, the diameter of iron being 1 1/16 inches, and the weight of each chain 21 tons, tested to a tensile strain of 40 tons, or twenty per cent over Admiralty test, the actual breaking strain being proved to be 70 1/2 tons. Each chain was loaded upon a carriage weighing eleven tons, the load for road transit being 32 tons.—*Iron Age*.

ASSYRIAN EXCAVATIONS.—Sir Henry Layard has recently repeated his statement that Botta discovered the first Assyrian monument (at Khorsabad), but says that Botta did not excavate in the mound of Kouyunjik, which is now considered to mark the site of Nineveh, from the discovery there of the ruins of the palace of Sennacherib. "I went to Mosul in the early spring of 1840, and visited the ruins which were then supposed to mark the site of Nineveh. Even then the idea of excavating occurred to me. After spending nearly two years in the Bakhtiari Mountains, with the object of discovering Assyrian remains and cuneiform inscriptions, I returned to Mosul in 1842. Botta had then just arrived there as French consul. I urged him to excavate, and visited with him the mounds on the banks of the Tigris. I specially urged him to try that of Nimrod." These statements have been called out by remarks of Professor Max Müller, in his latest volume, which have the effect of depreciating the services of Layard, H. C. Rawlinson and other Englishmen. The latter calls attention, in the *Athenæum*, to the explorations, measurements and charts made by British Resident Rich, of Bagdad, prior to 1820, and refers Professor Müller to Rich's "Residence in Kurdistan and on the Site of Ancient Nineveh," London, 1836. Sir Henry Rawlinson also defends himself from the disparaging remarks of the famous Sanskrit scholar, and points to his long residence in Bagdad, "in exile," for the purpose of solving the mysteries of cuneiform, his earlier services in that cause, his gallant conduct in obtaining the almost inaccessible Behistun inscriptions, so important to the decipherment of the arrow-headed character, and incidentally charges Professor Müller with many omissions of credit to himself and other workers in this field.—*Exchange*.

ROOFING OF THE ROYAL EXCHANGE.—The roofing of the Royal Exchange, London, involved engineering features which make it of more than passing interest. The inclosure covered is about fifty-eight feet in width and one hundred and sixteen feet in length. The roof is in accordance with the style of the building, and was designed with the idea that any roof to be added over the open area should be not a mere glass cover, but of a character consistent with the architecture of the court, such that it might have been designed by the architect of the building, the late Mr. Fife, as a great saloon, had he been so instructed, originally. The design of the roof is symmetrical, applicable only to the particular building. The ceiling is composed of glass coffers, glazed in prismatic form, with the tops hinged so that the inside can be cleaned from the outside. In the centre of the roof is a dome, forty feet in diameter, around which are louvres for ventilation. Access for cleaning, removing snow, etc., from every part of the outside of the roof has been provided, with complete safety to the workman, by means of steps on each main rib, by a platform or gallery around the outside of the dome, and another around the lantern-light. For the principals a box-section has been adopted, as being peculiarly suitable for resisting the strains to which the roof is subjected. They are arched in form, with a total rise of seventeen feet. There are eight principals or ribs, six of which span the court-yard, fifty-eight feet in width, and the two central ones carry the dome or cupola. Trussed principals in such a situation have been considered inadmissible, and they are therefore made without tie-beams, to prevent them thrusting out the walls. Neither are there buttresses behind the walls to resist the thrust of an arch. Under these peculiar conditions the principals, although arched in shape, are designed to act as girders, with a vertical or downward pressure upon the walls. The latter, being only two feet thick, would resist but little horizontal or outward thrust. The strains in the girders do not exceed five and three-fourths tons per square inch in tension, and four and three-fourths tons in compression. For calculation, the maximum horizontal pressure of the wind has been assumed to be half a hundredweight per square foot of vertical surface opposed to it in roof and dome, coming from any quarter. The greatest strains are in the two girders carrying the dome, and one of these has been tested with loads equal to all the weights and pressures that can possibly come upon it, in order to ascertain if there would be any danger of its thrusting out the walls. The feet rested on iron plates and spread apart with the loads already mentioned one-half inch, and this was due in a great measure to the two halves of the girder having been fastened together with service bolts. The result of this experiment is considered satisfactory. All the wrought-iron arched-roof principals were lifted into position by means of an upright timber or derrick, ninety-five feet high and sixteen inches square, properly guyed, from which the girders were suspended by their middle with a rope a little over two inches in diameter. Additional strength was given to the derrick by a system of trussing with twisted strand wire and short wooden struts, to prevent flexure. The tackle consisted of upper and lower blocks, each containing three sheaves, which made six parts to the rope. The first girder erected weighed, with its attachments, nine tons. Besides the tackle mentioned, a double-purchase crab was used, and a separate snatch-block at the foot of the derrick.—*The Metal-Worker*.

Dec 6, 1884

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

303,337. SPRING-HINGE.—James H. Alexander, Philadelphia, Pa.
303,310-311. HOISTING-MACHINE.—James Boyd, St. Paul, Minn.
303,338. WATER-CLOSET.—Frank B. Hanson, New York, N. Y.
303,331. BRICK-KILN.—John Weaver, East Liverpool, O.
303,402. CORK STRIP FOR PROTECTING STEAM AND GAS PIPES, ETC.—Jules Bourdon, Paris, France.
303,424. KEY-LIGHTING-INSTRUMENT.—William H. Munford, Anna, O.
303,428. HOT-AIR FURNACE.—John B. Oldershaw, Baltimore, Md.
303,433. WINDOW-BEAD FASTENER.—Esa W. Talbot, Napoleon, O.
303,414. FIRE-ESCAPE.—Augustus H. Terwilliger, Newburg, N. Y.
303,404. STONE-DRILL.—Thomas M. Yerkes, San Francisco, Cal.
303,405. FIREPLACE.—Edwin Chokiering, Cedar Rapids, Iowa.
303,486. DENRICK.—Thos. Gaffney, Detroit, Mich.
303,517. FARTNER FOR MEETING-RAILS OF SASHES.—John A. Paine, Tarrytown, N. Y.
303,535. LABEL.—Thomas C. Vail, Topeka, Kans.
303,537. SPRING-HINGE.—Patrick H. Walsh, Waterbury, Conn.
303,510. COMPOUND FAUCET.—Charles H. Waters, Chicago, Ill.
303,508. COMBINED LOCK AND LATCH.—Horace L. Heaton, Indianapolis, Ind.
303,501. WRENCH.—John Houlehan, Toledo, O.
303,514. SHINGLE-GAUGE.—Samuel T. Poe, Corington, Ky.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report eleven permits have been granted, the more important of which are the following:—
Adam Horn, three-story brick building, e s Eden St., n of Bank St.
Chas. Dimling, 3 two-story brick buildings, e s of alley, w of Burke, and s of Monument St.
Charles Fisher, two-story brick building, in rear w cor. Patterson Park Ave. and Jefferson St.
The labor quotations for December remain as quoted.

Boston.

THE PUBLIC LIBRARY.—At the meeting of the Common Council, November 23, the order passed last week for the appointment of a committee to award the prizes for the Public Library plans, though it had been specially assigned for reconsideration, did not come up.

BUILDING PERMITS.—Gray St., No. 18, Ward 17, for Jas. G. Smith, brick apartment-house, 34' x 60' 6", flat; J. H. Coon & Co., builders.

Ruggles St., Nos. 101 and 103, Ward 17, for T. Connolly, brick tenement, 34' x 37', flat; T. Connolly, builder.

Shawmut Ave., No. 25, Ward 12, for G. R. White, brick store, 16' x 25', flat; J. H. De Leue, builder.

West Fourth St., No. 71, Ward 13, for J. Cavanagh, brick dwell. and office, 20' x 41', flat; J. Cavanagh, builder.

Clyton St., near Cottage St., Ward 20, for A. P. Clifford, wooden dwell., 14' x 18' 6" and 27' x 50', pitch; A. P. Clifford, builder.

East Ninth St., No. 908, Ward 14, for Lyman Locke, wooden storage, 22' x 50', flat; A. P. Clifford, builder.

Longwood Ave., near Batchelder St., Ward 20, for Mrs. Annie Riley, 2 wooden dwellings, 14' x 14' and 20' x 25', pitch; Peter Riley, builder.

Chaucer St., near Moore St., Ward 1, for J. G. Morton, wooden dwell., 18' 6" x 20', pitch; J. G. Morton, builder.

Fairview St., near Skinner St., Ward 23, for Jno. B. Noyes, 21' 6" x 35', pitch; Swanson & Murray, builders.

Brooklyn.

BUILDING PERMITS.—Norman Ave., n e cor. Diamond St., 4 three-story frame tenements, felt, cement and gravel roofs; cost, each, \$3,800; owner, architect and carpenter, David Atkin, 581 Lorimer St.; masons, Gately & Smith.

Graham Ave., n s, 79' e Deverese St., four-story brick store and tenement, tin roof; cost, \$1,000; owner, John Schultheis, 10 Graham Ave.; architect, Th. Engelhardt; builder, John Auer.

Albany St., Nos. 314 and 316, s s, 276' e Broadway, 2 three-story frame dwellings, tin roofs; cost, each, \$3,000; owner, Michael Mayer, on premises; architect, Th. Engelhardt.

Kim St., No. 41, n s, 100' w Bushwick Ave., three-story frame dwell., tin roof; cost, \$3,200; owner, Mrs. M. Uhrig, Hudson, N. Y.; architect, Th. Engelhardt.

Marion St., n s, 160' e Heid Ave., 3 three-story brick dwellings, tin or felt and gravel roofs; cost, each,

\$3,000; owner, Mrs. E. Sullivan, Patchen Ave., near Decatur St.; architect, M. Walsh; builder, Philip Sullivan.

Tenety St., s s, 80' w Sixth Ave., three-story brick dwell., tin roof; cost, \$4,000; owner, Edwin C. Squance, 223 Eleventh St.; architect, Th. Engelhardt.

Warren St., n s, 222' 20" e Fourth Ave., 3 four-story brick tenements, felt and gravel roofs; cost, \$7,000; owner Geo. R. Brown, 34 South Portland Ave.; architect, C. E. Cossens; builder, L. E. Brown.

Hushwick Ave., s e cor. Palmisto St., three-story brick tenement, tin roof, cost, \$5,500; owners, Blaisdell Bros., 890 Hushwick Ave.; architect, Th. Engelhardt.

Twenty-second St., n s, 178' e Third Ave., 4 two-story and basement frame dwellings, tin roofs; cost for the four, \$4,200; owner, Mary A. Drury, 193 Adams St.; architect, Samuel Bennett; builder, John Starbier.

Gates Ave., n s, 200' w Tompkins Ave., 5 four-story brick stores and flats, tin roofs; cost, each, \$10,000; owner, W. H. Aldridge, on premises; architect, Robt. Dixon; builder, James Burns.

Eagle St., No. 126, s s, 125' e Manhattan Ave., three-story frame store and tenement, felt and gravel roof; cost, \$4,000; owner, John P. Weger, 154 Eagle St.; architect and carpenter, John D. Kiggers; mason, John Hafford.

Lexington Ave., n s, 100' e Patchen Ave., three-story brick express stables, tin roof; cost, \$4,800; owner, Smith Cox, 57 Patchen Ave.; architect, J. D. Reynolds.

Manhattan Ave., n e cor. Clay St., three-story brick store and tenement, tin roof; cost, \$6,500; owner, Peter McKeever, 76 Clay St.; architect, J. Mulhaui; builders, J. Rooney and J. Zalton.

Chaucer St., n s, 375' e Patchen Ave., 3 three-story frame tenements, tin roofs; cost, each, \$4,000; owner, architect and builder, Joseph Smyth, 253 Chaucer St.

Third Ave., s s, 42' e Twenty-sixth St., 2 three-story brick stores and dwellings, tin roofs; cost, each, \$3,500; owner, Thomas Pilsbado, 315 Seventeenth St.; architect, B. S. Brown; builders, Wm. and Thos. Corrigan.

Sumner Ave., No. 141, n w cor. Pulaski St., three-story brick store and tenement, tin roof; cost, \$7,500; owners and carpenters, Wm. and Walter Wyette; architect, W. F. Clayton; mason, R. Wyette.

Summer Ave., w s, 20' n Pulaski St., 3 two-story brick and brown-stone dwellings, tin roofs; also, Pulaski St., n s, 82' w Summer Ave., two-story brick and brown-stone dwellings, tin roofs; cost, each, \$5,500; owners and carpenters, William and Walter Wyette; architect, W. F. Clayton; mason, R. Wyette.

Hicks St., w s, 125' e Clark St., 2 four-story brick dwellings, Sparham fire-proof cement, etc., and terra-cotta; cost, about \$25,000 each; owner, John W. Mason, 79 Remsen St.; architect, W. W. Morris; masons, J. Stevenson & Son; carpenters, Morris & Selover.

Chicago.

BUILDING PERMITS.—J. Whasomonsky, two-story dwell., 258 North Sangamon St.; cost, \$2,500; builder, M. Lukowski.

S. O. Moore & E. A. Warner, 2 two-story dwellings, 221 and 223 Groveland Park Ave.; cost, \$15,000; architect, S. H. Schock.

W. Walsh, two-story dwell., 3131 Wabash Ave.; cost, \$7,000; architects, Formann & Gibson; builder, H. Appel.

F. Gorke, three-story store and dwell., 650 Blue Island Ave.; cost, \$7,000; builder, C. Baumann.

G. B. Cornell, 2 two-story dwellings, 334-336 Park Ave.; cost, \$8,500; architect, O. L. Stiles; builder, O'Connell.

Chicago, Milwaukee & St. Paul Railroad, ice-house, California Ave.; cost, \$3,500.

J. Dillenburg, three-story store and dwell., 477 Halsted St.; cost, \$5,000; builders, Field & Shay.

Duffy & Gullin, 2 two-story dwellings, 3705-3707 Prairie Ave.; cost, \$6,000; architect, Van Felt.

Mrs. C. Boshelman, two-story dwell., 623 Loomis St.; cost, \$2,500; builder, F. Leeman.

L. Kohl, two-story dwell., 429 West Randolph St.; cost, \$8,000; architect, H. Solks; builders, C. Agnew & Son.

J. Lastowska, cottage, 694 West Seventeenth St.; cost, \$3,000; builder, J. Rosta.

E. J. Lehmann, 2 two-story dwellings, 825-827 North Clark St.; cost, \$3,000; builders, Bodner Bros.

C. W. Farbridge, 5 two-story dwellings, 3712-3720 Ellis Ave.; cost, \$15,000.

C. Enders, three-story store and dwell., 31 Chicago Ave.; cost, \$7,000; architect, Rehwoidt.

T. Harry, two-story dwell., 254 Tremont St.; cost, \$4,500; architect, T. Karis.

J. Waughlin, two-story flats, 50 Burling St.; cost, \$3,200; builder, A. Baumann.

T. B. Pope, two-story dwell., 769 Ashland Ave.; cost, \$3,500; builder, E. H. Beena.

Heidman, two-story dwell., 148 Burling St.; cost, \$4,000.

Cincinnati.

BUILDING PERMITS.—H. W. Scarborough & Sons, addition to two-story building, cor. Fifth Ave. and Main St.; cost, \$5,000.

Mrs. C. Pope, two-story frame building, Court St., between Hatch and Pavilion Sts.; cost, \$2,708.

Henry Thumm, three-story brick building, cor. Vine and Molitor Sts.; cost, \$4,000.

W. S. Ralph, two-story frame building, Chapel St., near Willow St., Walnut Hills; cost, \$2,000.

Wm. Hickey, two-story frame building, cor. Lane and Locust Sts.; cost, \$3,000.

Henry Eldering, two-story brick building, 508 Sacramento St.; cost, \$2,500.

Repairs and additions; cost, \$4,310.
Total number of permits, 710.
Total amount to date, \$2,744,703.

New York.

ARMORIES.—The Army Commission, at their meeting on December 1, decided to accept the plans of Mr. Henry F. Kilburn for the Twenty-second Regiment armory, and of Mr. J. B. Thomas for that of the Eighth Regiment.

HOUSE.—For Mr. Joseph F. Kittel a three-story brick and terra-cotta house is to be built on the s s of Riverside Drive, 60' n of One Hundred and Twenty-second St., from plans of Mr. A. B. Jennings.

BUILDING PERMITS.—Trafalgar Ave., s e cor. One Hundred and Sixty-third St., 2 frame dwellings, and 1 building for store; cost, \$ each, \$1,800, and 1, \$2,500; owner and builder, John W. Decker, 511 Forest Ave.; architect, W. W. Gardiner.

One Hundred and Twenty-ninth St., s s, 100' e Eighth Ave., five-story brown-stone front tenement, tin roof; owner, John H. Provost, 425 East One Hundred and Nineteenth St.; architect, Andrew Spence.

Seventy-fifth St., s s, 209' w of Boulevard, 5 three-story brown-stone front dwellings, tin roofs; cost, each, \$12,000; owner, Daniel D. Brandt, 38 Bank St.; architect and builder, Wm. J. Merritt, 113 West One Hundred and Twenty-eighth St.

Seventy-fifth St., n s, 209' w of Boulevard, 4 five-story brick flats, tin roofs; cost, each, \$20,000; owner, architect and builder, same as last.

East Broadway, No. 38, five-story brick tenement and store, tin roof; cost, \$11,000; owner, Esther Simon, 38 East Broadway; architect, Wm. Grant.

West Fifty-sixth St., Nos. 530 and 541, four-story brick factory, gravel roof; cost, \$30,000; owner, H. H. Halls, 411 West Fifty-seventh St.; builder, Stephen H. Mapes.

One Hundred and Fifty-sixth St., n s, 100' e Tenth Ave., two-and-a-half-story frame dwell., shingle roof; cost, \$3,000; owners, H. F. Steers and wife, Tenth Ave. and One Hundred and Fifty-sixth St.; architect, Henry Fouchaux.

Fifty-fifth St., s s, 225' e Eleventh Ave., 5 four-story brick townhouses, tin roofs; cost, each, \$18,000; owner, Chas. H. Bliss, Grand Union Hotel; architects, Thos. & Wilson.

White St., Nos. 115, 117, 119 and 121, e cor. of Central St., seven-story brick factory and stores, tin roof; cost, \$18,000; owner, Hannan & Son; architects, Babbs, Cook & Willard.

Sixtieth St., n s, 150' w Tenth Ave., five-story brick flat, tin roof; owner, Chas. Kopp, 223 West One Hundred and Thirty-third St.; architect, Chas. Baxter.

One Hundred and Seventh St., n s, 150' w Avenue A, two-story brick office and stable, asphalt roof; cost, \$5,000; owner, Geo. A. Reeder, 222 West Thirtieth St.; architect, Chas. Baxter.

Sixty-second St., s s, 100' e Eleventh Ave., 4 five-story brick flats (2 with stores), tin roofs; cost, each, \$18,000; owner, Gusthold Hang, 1764 Third Ave.; architect, Geo. W. Spitzer.

Ninth Ave., w s, Sixty-first and Sixty-second Sts., one part one and part three-story brick armory (12th Regiment), tin roof; cost, \$396,000; owner, City of New York, Gen. Alon Shaler, sec'y Army Board, 9 West Forty-fifth St.; architect, Jas. E. Ward.

One Hundred and Thirty-fourth St., s w cor. Alexander Ave., two-story brick lumber storage and carpenter shop, tin roof; cost, \$20,000; owner, New York Wood Turning Co., One Hundred and Thirty-fourth St., bet. Lincoln and Alexander Aves.; architect, C. C. Peck.

East One Hundred and Twentieth St., No. 227, four-story brick stable and warehouse, tin roof; cost, \$—; owner, Richard Weber, 211 East One Hundred and Twentieth St.; architects, Jas. S. Wightman.

ALTERATIONS.—West Fourteenth St., No. 313, interior alterations, partitions, light shaft, chimney, etc., fit up for flats; cost, \$5,000; owner, Henry H. Hagemeyer, New Windsor, N. Y.; architect, John Seaver, builder, K. H. Miller.

East Sixteenth St., No. 112, bay window and extension on rear second and third stories; cost, \$5,000; owner, Auguste Lewis, 74 Union Pl.; architects, Vaux & Bedford; builders, D. C. Weeks & Son and Henry Ellis.

West Fifty-eighth St., No. 223, four-story brick extension, tin roof; cost, \$20,000; owner, Chas. E. Apple, 216 West Fifty-ninth St.; architect, C. Abbott Frauch; builder, M. McEnamont.

Dowry, Nos. 17 and 19, raise one-story and repair damage by fire, new iron front; cost, \$4,000; owner, Morris Kohner, 147 East Fifty-sixth St.; architect, Bart Weather.

Fifth Ave., No. 80, is to be altered into a six-story building, the first floor for store purposes, and above studios and offices. Mr. Geo. Hillier, the owner, will expend about \$50,000 on the improvement.

Philadelphia.

BUILDING PERMITS.—Reese St., bet. Cumberland and Huntington Sts., one-story building, 20' x 60'; George Kresler, contractor.

Eleventh St., cor. Indiana Ave., 2 two-story dwellings, 16' x 31'; J. R. Pyle, owner.

Thirtieth St., bet. Jackson St. and Snyder Ave., one-story blacksmith shop, 30' x 50'; Wm. C. McPherson, contractor.

Haverford Ave., between Thirtieth and Thirty-seventh Sts., 2 two-story dwellings, 15' 6" x 46'; Chas. F. Hall, owner.

Wilson St., s of York St., two-story dwell., 16' x 28'; Gaffrey & Alexander, contractors.

Nickel St., below Venango St., 2 three-story dwellings, 14' x 30'; John Kodel, owner.

Sixtieth St., bet. Greenway St. and Kingsessing Ave., two-story dwell., 34' x 43'; Robert H. Parker, contractor.

Cancaster Ave., bet. Thirty-fourth and Thirty-fifth Sts., two-story stable, 34' x 40'; Jno. G. Ruff, contractor.

Sixteenth St., s of Master St., 4 three-story dwellings, 16' x 40'; B. Ketchum & Son, contractors.

Orkney St., bet. Indiana and Columbia Aves., 11 two-story dwellings, 14' x 30'; Thos. L. Kells, owner.

Thirty-third St., cor. Thompson St., ice-house, 37' x 47'; John Brainer, contractor.

Marshall St., No. 2304, two-story dwell., 16' x 44'; Jas. P. Yerkes, owner.

Frankford Road, No. 1754, two-story stable, 16' x 30'; Jas. McCauley & Son, contractors.

Hobart St., between Columbia and Montgomery Aves., office and stable, 22' x 44'; Engelbert Schmidt, contractor.

Cabot St., No. 1610, two-story addition to stable, 14' x 28'; Geo. Moore, contractor.

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BUILDING INTELLIGENCE.

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BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

- 308,614. HOT-AIR FURNACE.—George Kamp, Utica, N. Y.
- 308,615. BRICK FOR PAINT-RUBBERS.—William L. Harris and G. Byron Sibley, Huntington, Vt.
- 308,616. OPERA-CHAIR.—John H. Huls, Dubuque, Ia.
- 308,617. ALARM-LAMP.—Jacob W. Kuhn, Newark, N. J.
- 308,618. RUBBER WORKER.—Edwin Prescott, Arlington, Mass.
- 308,619. FRY PAN HANDLE.—Christopher Hochstein, Newark, N. J.
- 308,620. HAMMER.—Peter R. Rhick, Spring Grove, Pa.
- 308,621. GILLES-OUTTER TUNING.—Philip Hines, Baltimore, Md.
- 308,622. TIDE-MACHINE.—John S. Smith, Jackson, Mich.
- 308,623. BIDET FOR COMMODES.—David Watson, New York, N. Y.
- 308,624. FIRE-SCAPE.—Samuel Whitehouse and Scott R. Frye, Bath, Me.
- 308,625. SALT HOLDER.—Sherman E. Anthony, Stillwater, N. Y.
- 308,626. WEATHER-STRIP.—Geo. W. Bell, St. Joseph, Mo.
- 308,627. PILE-DRIVER.—Chas. Bliven, Norfolk, Va.
- 308,628. HINGE.—Bernard P. Bogy, St. Louis, Mo.
- 308,629. COAL-CHUTE AND VAULT-COVER.—Harold Borup, St. Paul, Minn.
- 308,630. CARTONER'S GAUGE.—Augustus J. Burdett, New London, Wis.
- 308,631. DOOR-SPRING.—Enoch H. Clark, Greenland, N. H.
- 308,632. DOOR-STOP.—Levi P. Hazen, Cincinnati, Ohio.
- 308,633. SASH-BALANCE.—W. Haskell King, Athol, Mass.
- 308,634. PIPE-WRENCH.—William S. Morrison, Fort Worth, Tex.
- 308,635. ATTACHMENT FOR KNOB-ROBBER.—Garret Van Winkle, North Plainfield, N. J.
- 308,636. COMBINED AXIAL AND VIB.—Joseph Austin, Rutland, Vt.
- 308,637. DOOR-SECURE.—William J. Bitter, Toledo, O.
- 308,638-339. STRUCTURAL SHAPE FOR COLUMNS, PLASTERERS, ETC.—Edward M. Butz, Allegheny, Pa.
- 308,640. METAL COLUMN, PLASTER OR GINDER.—Edward M. Butz, Allegheny, Pa.
- 308,641. STRUCTURAL SHAPE FOR COLUMNS, PLASTERERS AND GINDERS.—Edward M. Butz, Allegheny, Pa.
- 308,642. METAL COLUMN, PLASTER OR GINDER.—Edward M. Butz, Allegheny, Pa.
- 308,643. PORTLAND STRUCTURE.—Johan G. O. Dicker, Copenhagen, Denmark.
- 308,644. SPIKE.—Sulzer Frost, Boston, Mass.
- 308,645. CUTTER AND RAMMER.—Eldon B. Hunt, Delaware, O.
- 308,646. LATHING APPARATUS.—Jas. Oppenheimer, Shenandoah, Iowa.
- 308,647. CUT-OFF FOR CISTERNS.—Daniel S. Troy, Montgomery, Ala.

SUMMARY OF THE WEEK.

Baltimore.
DWELLINGS.—Frank E. Davis, architect, has prepared drawings for James Thompson, Esq., for 2 three-story brick buildings, with Chesapeake River and marble trimmings, each 18' x 60', to be erected on Laurens St., near Park Ave., to cost \$11,000; Jackson Holland, builder.
BUILDING PERMITS.—Since our last report seven permits have been granted, the more important of which are the following:
A. L. Gortor, 3 three-story brick buildings (square), n. s. Preston St., bet. Charles St. and Lovegrove Alley; and 2 three-story brick buildings, s. s. Hoffman St., bet. Charles St. and Lovegrove Alley.
Otto Goldbach, 3 three-story brick buildings, s. s. Wolfe St., s. of McKelvey St.
James J. Brown, three-story brick building, w. s. Greenmount Ave., bet. Preston and Bidde Sts.
Aug. Krebs, 2 three-story brick buildings, w. s. Hanover St., bet. Clement St. and Fort Ave.
Wm. J. Glendon, 2 three-story brick buildings, n. s. Preston St., bet. Broadway and Bond St.; and 2 two-story brick buildings, s. s. Joseph St. in rear.
ALTERATIONS.—Geo. Archer, architect, has prepared plans for alterations to the Central Savings Bank, cor. Charles and Lexington Sts., to cost \$2,000; John Howell, builder.
Boston.
BUILDING PERMITS.—Marlborough St., No. 188, Ward 11, for Jas. J. Minot, brick dwell., 24' x 62' 2", mansard; B. D. Whitcomb, builder.
Brookline St., near Maple Ave., Ward 22, for City of Boston, brick gate-chamber, 24' x 64', pitch; Park Department, builder.
Huntington Ave., near Tremont St., Ward 22, for A. Uelger, 2 brick dwell., and stores, 31' 6" x 63' 2", flat.
East Fifth St., Nos. 708, 710 and 712, Ward 14, for

H. B. Stratton, 3 brick dwell., 22' x 50', pitch; H. B. Stratton, builder.
East Eighth St., No. 519, Ward 14, for W. G. Fogg, wooden dwell., 28' x 30', flat; Clark & Lee, builders.
Huckins Ave., No. 11, Ward 23, for A. Hutchins, wooden dwell., 22' x 32', pitch; W. Ballantine, builder.
Droper St., cor. Holmes Ave., Ward 24, for A. Crawford, 2 wooden dwell., 16' x 30', pitch; A. Crawford, builder.
Corruth St., cor. Beal St., Ward 24, for Mrs. L. F. Carruth, 2 wooden dwell., 12' x 17' and 20' x 33', pitch.
Leonard St., near Norfolk St., Ward 24, for Samuel Rockwell, wooden dwell., 14' x 16' and 29' x 31', pitch.
Butler St., near Vose St., Ward 24, for Joe. Pope, 2 wooden dwell., 16' x 18' and 29' x 30', pitch; Joe. Pope, builder.
Sonia St., near Warren St., Ward 21, for R. M. Gooch, 2 wooden dwell., 20' x 40', mansard; Jno. Patton, builder.
Rogers St., No. 33, Ward 15, for W. L. Lewis, wooden dwell., 20' x 40', flat; W. L. Lewis, builder.
Fairfax St., near Carruth St., Ward 21, for H. S. Carruth, 2 wooden dwell., 21' x 31', pitch; F. M. Severance, builders.
Kings St., near Hagar St., Ward 23, for F. C. Adams, wooden dwell., 24' x 28', pitch; A. A. Ayers, builder.
Lumaine St., near Wyman St., Ward 23, for J. A. Hampton, wooden dwell., 28' x 30', flat; J. L. Humphreys, builder.
North Revere St., cor. George St., Ward 25, for H. P. DeLong, 4 wooden dwell., 19' x 21', pitch; H. M. Perry, builder.
Brooklyn.
BUILDING PERMITS.—Fifty-fifth St., s. s. bet. 29th and Second Aves., 4 two-story frame tenement, tin roof; cost, each, \$1,300; owner and builder, J. G. Carroll, 161 Thirty-ninth St.; architect, S. M. Bogert.
North Second St., No. 389, s. s. bet. 17th and Union Aves., rear, two-story frame tenement and wagon-house, tin roof; cost, \$2,500; owner, John H. Albohn, 389 North Second St.; architect, Leonard F. Graetzer; builder, Jacob Schoch.
Cedar St., s. s. 129th and Myrtle Aves., 3 three-story frame tenements, tin roof; cost, each, \$3,500; owner and builder, H. Herr, 778 Broadway; architect, John Herr.
Bedford Ave., s. e. cor. Hancock St., 4 three-story brown stone stores and flats, tin roof; cost, corner, \$7,000; other, \$3,500 each; owner and builder, R. O. Frost, No. 1 Hunterly Road; architect, Amos Campbell.
High St., n. s. 99th and Adams Sts., two-story and basement brick dwell., tin roof, wooden cornice; cost, \$3,500; owner, Mrs. E. O'Connor, cor. High and Adams Sts.; builders, John Guilfoyle and R. J. Brown.
Hull St., n. s. 180th and Rockaway Aves., 5 two-story brick dwell., gravel roofs; cost, each, \$3,000; owner, W. H. H. Robbins, 110 Patchen Ave.; architect, B. T. Robbins; builders, E. K. Robbins and Jno. Remsen.
Manhattan Ave., No. 84, s. e. 36th and 10th Van Cott Ave., four-story frame tenement, tin roof; cost, \$3,500; owner, James MacFarlane, 111 Milton St.; architect, Fredk. Weber; mason, John Cashman.
Herkimer St., n. s. 100th and Hopkinson Aves., 5 two-story brick dwell., gravel roofs; cost, each, \$1,000; owner, etc., Matthew Nolan, Pacific St.
Wyckoff St., s. s. 10th and Nevins St., four-story brick tenement, tin roof; cost, \$3,000; owner and architect, Robert Dixon, 219 Montague St.; builder, Owen Nolan.
Jackson St., No. 98, s. s. 100th and Leonard St., two-story frame dwell., tin roof; cost, \$2,250; owner, Henry Nitz, 38 Jackson St.; architect, Julius I. Smith; builder, A. Kussweller.
Carlton Ave., s. e. 200th and Myrtle Aves., two-story brick stable and dwell., gravel roof, brick cornice; cost, \$7,000; owner, J. M. B. Caruthers, 189 Washington Park; architect, M. J. Morrill; mason, F. J. Carlin; carpenter, not selected.

Chicago.
BUILDING PERMITS.—L. Welck, 2 two-story dwell., 337-339 Mohawk St.; cost, \$7,000; architect, A. M. F. Golden.
O. G. Bode, four-story store and dwell., 428 Twelfth St.; cost, \$10,000; architect, C. U. Bode.
L. B. Oles, two-story rear addition, 3427 Michigan Ave.; cost, \$3,000.
M. W. Ryan, 3 three-story stores and flats, 428-430 Van Buren St.; cost, \$17,000; architect, G. Vigeant; builder, J. McMillin.
E. S. Eddy, 2 two-story stores and dwell., 615-617 Van Buren St.; cost, \$8,000.
Wm. A. Hauberg, two-story flat, 94-96 Dayton St.; cost, \$2,300.
J. Kubel, two-story dwell., 3129 Westworth Ave.; cost, \$2,500; architects, Gutrich Bros.
J. L. Campbell, 4 two-story dwell., Wilcox Ave.; cost, \$12,000; builders, Campbell Bros. & Co.
Mrs. S. J. Steadman, two-story flats, 1272 Monroe St.; cost, \$2,500.
F. C. Lang, 2 two-story dwell., 82 Pearson St.; cost, \$5,000; architect, C. H. Gottig; builder, J. McCarty.
J. Hanziger, two-story flats, 538 South Western Ave.; cost, \$3,000.
New York.
The armory competition having been settled, as reported in our last issue, little of general interest will be started until after January 1. Work is now being finished as rapidly as possible, and outside of ordinary speculative buildings nothing is reported.
The appointment of a new Commissioner of Public Works is waited for with interest, as important work will be under the control of the next incumbent.
BUILDING PERMITS.—Courtland Ave., s. s. 60th and One Hundred and Forty-ninth St., 2 four-story frame tenements, tin roofs; cost, each, \$6,000; owner, Wm. Spieker, 183 Third Ave.; architect, John Rogers.
Ninth Ave., n. w. cor. Eighty-second St., four-story frame dwell. and store, tin roof; cost, \$14,500; owners, E. A. Cruikshank & Co., 163 Broadway; architect, Ralph S. Townsend; builders, I. A. Hopper and M. Townsend.
One Hundred and Fifth St., n. s. 322nd and Morris Ave., three-story frame dwell., tin roof; cost, \$4,000; owner, Patrick Kelly, 565 West Fifty-sixth St.; architect, Geo. W. Hughes.
One Hundred and Seventh St., n. s. from Fourth St. to Lexington Ave., one-story brick skating-rink, fire proof roofing material; cost, \$25,000; leases, Jane B. Muxlow, 200 East Seventy-fourth St.; architects, J. B. McElpatrick, Sons & De Haud.
One Hundred and Forty-ninth St., n. s. 129th and Courtland Ave., three-story frame tenement, tin of Courtland Ave., three-story frame tenement, tin of Courtland Ave., three-story frame tenement, tin of Courtland Ave., three-story frame tenement, tin of Courtland Ave.; architect, Adolph Pfeiffer.
West Fourteenth St., No. 642, three-story brick office, gravel roof; cost, \$5,500; owner, H. K. Thurbur, 166 West Twelfth St.; builder, J. G. McMurber.
Walker St., Nos. 88 and 90, seven-story brick store, metal roof; cost, \$40,000; owner, John Borahoff, 30 St. Mark's Pl.; architect, John B. Snook; builder, C. Oberacher.
One Hundred and Eighteenth St., n. s. 87th and Third Ave., 2 four-story brick flats.
East One Hundred and Sixteenth St., architect, James Wood, cost, each, \$28,000; owner and builder, James Wood, 341 East One Hundred and Sixteenth St.; architect, M. V. B. Fordon.
Seventeenth St., s. s. 129th and Madison Ave., 5 four-story brown-stone front dwell., tin roofs; cost, total, \$80,000; owners, architects and builders, Chas. Graham & Sons, 203 and 207 East Forty-third St.
First Ave., n. e. cor. One Hundred and Twenty-first St., 1 five-story brick tenement and store, and 2 one-story brick stores, tin roofs; cost, total, \$100,000; owner and builder, Patrick Sheridan, 121 Race St.; Elizabeth, N. J.; architect, Will. Alan O'Hara.
One Hundred and Twenty-third St., s. s. Eighth St. to St. Nicholas Ave., 6 brick dwell. and 2 brick dwell. with stores, tin roofs; cost, dwell., each, \$9,000; stores and dwell., each, \$11,000; owner, H. J. Josephine Wilson, 325 East Fourteenth St.; architect, H. T. Atwood; builders, Patrick Childs and J. G. Scheel.
ALTERATIONS.—East Forty-second St., Nos. 32 to 38, eight-story brick extension, fire-proof roof; cost, \$8,000; owner, Lincoln Safe Deposit Co., Thomas L. James, President, on premises; architect, John B. Snook; builder, D. H. King; iron-work, A. J. Campbell.
Pine St., No. 73, repair damage by fire; cost, \$5,000; owner, Amos R. Eno, 8 Pine St.; builders, A. G. Bogert & Bro.
Thirty-fifth St., n. s. 35 West Broadway, two-story brick extension, tin roof; cost, \$3,000; leases, Hyde & Behman, 23 Eighth Ave., Brooklyn; architect, John Sexton.

COMPETITIONS.

ASSOCIATION HALL. [At Richmond, Va.]
The Richmond Mozart Association advertise for plans to build a new Mozart Hall. A premium of one hundred dollars is offered for the plan adopted. Said plans are to be sent in on or before the first Monday in January, 1885.
The building to cost twenty-five thousand dollars, with a seating capacity of fourteen hundred. The building to front eighty feet, with a depth of one hundred and twenty feet.
For particulars apply to A. BARGAMIN, Chairman of the Building Committee, 907 East Main St., Richmond, Va.

AMERICAN ARCHITECT COMPETITIONS.—NEW SERIES.

As the busy season for this year has nearly passed, the younger men who have in past years evinced an active interest in the little competitions we have held from time to time, may be ready to test once more their skill in design in competition with their fellows. Therefore we take pleasure in inviting their attention to the following PROGRAMME.

Most people who live in the country, or in the suburbs of a large town, and have sufficient means, usually feel obliged to "set up their carriage," and in course a carriage implies horses, and a building in which the entire establishment can be housed. Therefore we propose as the subject of the present competition a barn such as the dweller in a house that has cost \$5,000 would consider an appropriate adjunct of his establishment; but as this may be somewhat ambiguous, seeing that some men think more of their horses than they do of their families, we will say that the proprietors would be best observed if the cost of the barn should range between \$1,000 and \$1,500.
The barn must furnish accommodation for two horses and a cow; the carriage-room must be large enough for two wheeled vehicles and a sleigh; and proper provision must be made for harness, feed and hay, and the stableman must also be kept in mind. Water and ventilation drawing of the barn, elevations of the sides not shown in the perspective, a plan of the site on a single sheet, 21" x 33" within the frame included on a single sheet. A short description and the result of a bond estimate must also be furnished. For the best three designs we will pay equal prizes of thirty dollars each.
Conditions.—Drawings must be received at the office of the American Architect, on or before Saturday, December 20, 1884.
The three prize drawings are to remain the property of the publishers.
All designs submitted are subject to publication in the American Architect at the pleasure of the editor. All designs must be sent in signed only by a motto—not a graphic symbol—the name and address of the author being sent enclosed in a sealed envelope, endorsed with a duplicate motto.
The jury of award will be composed of three architects.

BUILDING INTELLIGENCE.

(Reported for The American Architect and Building News.)

[Although a large portion of the building intelligence is provided by their regular correspondents, the editors greatly desire to receive voluntary information, especially from the smaller and outlying towns.]

BUILDING PATENTS.

[Printed specifications of any patents here mentioned, together with full detail illustrations, may be obtained of the Commissioner of Patents, at Washington, for twenty-five cents.]

- 398,868. CABINET-COMMODE.—Quimby S. Backus, Winchendon, Mass.
 398,869. DOOR-CHECK.—Ernst F. Decker, Albany, N. Y.
 398,883-884. HINGE.—Wm. M. Ducker, New York, N. Y.
 398,885. LOCK.—George M. Eames and Freeland W. Ostrum, Bridgeport, Conn.
 398,887. SPRING-BOLT.—Peter Forg, Somerville, Mass.
 398,917. WATER-HEATER FOR STOVES, RANGES, ETC.—John A. Price, Somerville, Pa.
 398,935. WATER-CLOSET AND SIMILAR STRUCTURES.—Henry O. Weedon, Boston, Mass.
 398,938. GUARD FOR ELEVATOR-SHAFTS.—Charles Whittier, Boston, Mass.
 398,939. COCK ON FAUCET.—William J. Wilson, Chelsea, Mass.
 398,947. RACK-DRILLING MACHINE.—Bro. F. Bergh, New York, N. Y.
 398,954. FASTENING FOR MEETING-RAILS OF SASHES.—Horace L. Heaton, Indianapolis, Ind.
 398,957. SASH-FASTENER.—Marcel Joubert, Lawrence, Mass.
 398,959. WRENCH.—Joseph Lussler, Minneapolis, Minn.
 398,973. CALCULINE COMPOSITION AND METHOD OF PREPARING THE SAME.—George A. Marsh, Jr., Sandusky, O.
 398,993. AUGER-HANDLE.—Henry Sager, Girardville, Pa.
 398,995. WINDOW-SCREEN.—Henry E. Miller, Milwaukee, Wis.
 399,021. MACHINE FOR FRAMING TIMBER.—Wm. S. Bley, Silver King, Ariz.
 399,024. WINDOW BLIND OR SHUTTER.—Melanoton B. Bristol and Orange A. Page, Oskaloosa, Io.
 399,030. PORTABLE DRY-DOCK OR COFFER-DAM.—Frank Cox, Philadelphia, Pa.
 399,031. FIRE-ESCAPE.—William Craddock, New York, N. Y.
 399,037. BRICK-MACHINE.—Charles A. Tarragon, Portland, Oreg.
 399,038. SCAFFOLD-CLAMP.—Arthur B. Flach, New York, N. Y.
 399,053. HINGE.—John F. Foster, Arlington, N. J.
 399,059. SHUTTER-FASTENER.—Bernhard Jacob, Seima, Ala.

SUMMARY OF THE WEEK.

Baltimore.

BUILDING PERMITS.—Since our last report fifteen permits have been granted, the more important of which are the following:—
 Caroline Kemp, 2 two-story brick buildings, s s Elbow Lane, between Green and Warner Sts.
 Jas. Thompson, 2 three-story brick buildings, square, n s Laurens St., between Park Ave. and Bolton St.
 Chas. Gantz, 7 three-story brick buildings, s s Preston St., between Ennor and Holbrook Sts.
 W. Dashiield, 2 two-story brick buildings, s s Cross St., s of Battery Ave.
 J. G. Drumble, 7 three-story brick buildings, w s Patterson Park Ave., between Lombard and Pratt Sts.
 John Keane, Jr., & Co., three-story brick warehouse, w s Wisconsin St., s of Cross St.
 Wm. E. Wood & Co., 11 two-story brick buildings, s s Sanson St., s of Cross St.
 Virginia Gaddess, four-story brick warehouse, s s Charles St., between Camden and Ferry Sts.

Boston.

BUILDING PERMITS.—Bradstreet Ave., Ward 23, for Jno. Dolan, 2 wooden dwellings, 22' x 30', pitch; D. McDonald, builder.
 Woodman St., near Custer St., Ward 23, for M. Mahan, wooden dwell., 14' x 18' and 20' x 30', pitch; D. McDonald, builder.
 Sims St., cor. Fairview St., for J. P. Phelley, et al., wooden dwell., 24' x 28' 1/2', pitch; W. S. Mitchell, builder.
 Unnamed St., s of Norfolk St., Ward 23, for Winslow Chappell, 2 wooden dwellings, 19' x 24', pitch.
 Clarence Ave., cor. Kittredge St., Ward 23, for J. Rydström, 2 wooden dwellings, 18' x 28', pitch; M. Jones, builder.
 Mansfield St., near Cambridge St., Ward 25, for H. Dupon, wooden dwell., 22' x 33' 6", pitch; C. Leake, builder.
 Cobden St., near Walnut Ave., Ward 21, for A. R. Todd, dwell., 26' 2" x 31', h/p; Thos. Clune, builder.
 Unnamed Pl., near Blue Hill Ave., Ward 21, for D. & W. Jamison, 1 wooden dwell., 20' x 28', flat; H. J. Bartlett, builder.
 Englewood St., cor. Roxbury Ave., Ward 25, for F. F. Morton, wooden dwell., 20' x 41' 6", pitch; Morton & Chesley, builders.
 East Fourth St., No. 683, Ward 14, for L. Locke, wooden dwell., 22' 6" x 36', mansard; L. Locke, builder.
 Elm St., No. 29, Ward 1, for E. Russel, wooden dwell., 22' x 31', pitch; G. Dempsey, builder.

Unnamed Pl., near Tremont St., Ward 25, for P. Carr, 8 wooden dwellings, 18' x 28', h/p; Lamson & Williams, builder.
 Call St., near Childs St., Ward 23, for Jas. Smith, wooden dwell., 22' x 32', flat; J. Keefe, builder.
 Paris St., cor. Marion St., Ward 2, for R. Pinckham, wooden mechanical building, 18' x 20', pitch; R. Pinckham, builder.
 Nelson Pl., near Norfolk St., Ward 24, for A. J. Brennan, wooden dwell., 18' x 17' and 20' x 32', mansard; A. J. Brennan, builder.
 Park St., near Washington St., for Wm. Hannan, brick green-house, 19' x 12' 6", pitch; Allen McNabb, builder.
 Halborn St., near Blue Hill Ave., Ward 21, for C. Newhall, 2 brick apartment-houses, 42' x 63', flat; Geldert & White, builders.

Brooklyn.

BUILDING PERMITS.—Bleeker St., n s, 125' e Evergreen Ave., two-story frame dwell., with one-story extension, tin roof; cost, \$3,000; owner, John E. Wade, 101 Kosolusko St.; architect, Frank Holmberg.
 Broadway, Nos. 110 and 112, w s, 175' s Lewis Ave., 2 four-story frame tenements and stores, tin roofs; cost, \$6,000; owner, Ludwig Levy, 113 Ewen St.; architect, Th. Engelhardt; builders, M. Ruhn and Frank Herte.
 Bainbridge St., n s, 105' w Lewis Ave., 8 three-story and basement frame dwellings, tin roofs and gravel roofs, cost, each, \$5,000; owner and architect, John C. Bushfield.
 Hart St., s s, 150' w Sumner Ave., 5 two-story brick dwellings, tin roofs, wooden cornices; cost, each, \$4,000; owner and builder, Henry Grasman, 142 Marcy Ave.; architect, Frank Holmberg.
 Quincy St., s s, 19' 6" e Patchen Ave., 5 two-story brick dwellings, tin roofs; cost, each, \$3,000; owner and carpenter, Wm. Godfrey, 518 Monroe St.; mason, Wm. Gibson.
 Quincy St., s e cor. Patchen Ave., three-story brick dwell., tin roof; cost, \$6,000; owner, carpenter and mason, same as last.
 Broadway, e s, 75' s Elbert St., three-story frame store and dwell., tin roof, cost, \$4,500; owner, C. Loesser, Broadway, near Seventh St.; owner, John Platten, builder, John Linger.
 Marston St., s e cor. Ralph Ave., 3 buildings, three-story frame store and dwell., and 2 two-story frame dwellings, tin roofs, cost, \$1,000 and \$3,000 each; owner, Michael Sullivan, 362 Hancock St.; architect, Amel Hill.
 Berkeley Pl., No. 18, s s, 142' e Fifth Ave., 2 two-story brick dwellings, gravel roofs; cost, \$3,500; owner, George Gein, 538 Pearl St.
 Van Buren St., s s, 214' e Broadway, 4 two-story and basement frame dwellings, tin roofs; cost, each, \$2,500; owner, Anna Fardon, 1132 Lafayette Ave.; architect and builder, A. A. Fardon.
 Lafayette Ave., Nos. 1128 and 1130, 2 two-and-one-half-story frame dwellings, tin roofs; cost, each, \$2,900 owner, architect and builder, same as last.
 Floyd St., No. 102, s s, 205' e Marcy Ave., three-story frame tenement, tin roof; cost, \$3,500; owner and builder, Jacob Ludwig, 100 Floyd St.; architect, Th. Engelhardt.
 North Sixth St., No. 22, n s, 100' w First St., two-story brick cooper-shop, boiler and engine room and chimney, gravel roof; cost, \$12,000; owner, Paul Weidmann, 91 North Third St.; architect, Th. Engelhardt.
 North Seventh St., No. 228, s s, 125' w First St., two-story brick storage shed, gravel roof, brick cornice; cost, \$12,000; owner, Paul Weidmann, 91 North Second St.; architect, Th. Engelhardt.
 Hanover Pl., n e cor. Grove Pl., one-story brick carpet store, gravel roof, iron cornice; cost, \$10,000; owners, Wm. Harris Sons, 525 Fulton St.; architects, Eastman & Davis; builders, Frank Kelley & F. D. Norris.
 Twenty-third St., n s, 100' e Fifth Ave., three-story frame tenement, tin roof; cost, \$3,200; owner, A. M. White, Pierrepont Terrace; architect, James Pilbaldou, builders, Hambleton & Sons and James Pilbaldou.

Chicago.

BUILDING PERMITS.—R. Kroff, two-story dwell., 676 Warren Ave.; cost, \$2,800.
 Wm. Slett, three-story shop and dwell., 963 Madison St.; cost, \$5,000; builder, Wm. Slett.
 F. Fritschner, two-story flats, 1638 West Lake St.; cost, \$2,500.
 F. H. & J. I. Wallace, three-story warehouse, 34 Roberts St.; cost, \$2,500.
 C. Griffin, two-story dwell., 1241 South Western Ave.; cost, \$6,000; builders, J. M. Dunphy & Co.
 H. Steinback, three-story store and flats, 783 Milwaukee Ave.; cost, \$5,000; architect, H. Kley; builder, F. Hansen.
 Lakeview Roller Rink, Ellis Ave. and Thirty-ninth St.; cost, \$5,000; architect, J. C. Lane; builder, J. Landquist.
 George E. Seaverns, one-story elevator, Grove St.; cost, \$5,000.
 S. L. Williams, three-story dwell., 400 Ontario St.; cost, \$8,000; architect, Cobb & Frost; builder, L. Welch.
 Robinson & Minot, 4 two-story dwellings, 3641-3645 Prairie Ave.; cost, \$14,000; architect, W. L. B. Journey; builders, Robinson & Minot.
 Ira C. Sax, 4 one-and-one-half-story cottages, 172-178 Moore St.; cost, \$3,200; builder, J. C. Nicholson.
 E. Wentworth, two-story dwell., 281 West Jackson St.; cost, \$5,000; architect, J. H. Moore.
 F. B. Clark, two-story flats, 449 South Robey St.; cost, \$5,000; architect, W. J. Hunter; builders, Lehman & Co.
 F. Reuss, 2 three-story stores and flats, 015-017 West Twelfth St.; cost, \$16,000; architect, P. Ruhies; F. Hoppe, builder.

New York.

ANNOUNCEMENT.—The letting of the contracts for the new armories may be seriously delayed, owing to the fact that the new Constitutional Amendment will not permit of bonds being issued for amounts required. Other public work may be delayed from the same cause.

RAILROAD DEPOT.—The Second Ave. Railroad proposes to extend their building on Ninety-sixth and Ninety-seventh Sts. and First Ave., by an addition, 200' x 200', of brick and stone, three and four stories high, to cost about \$100,000; Mr. John G. Fragus is the architect.

HOUSE.—Mr. C. O'D. Ielch proposes to build a 25' front residence on the north side of Fifty-second St., 150' w of Fifth Ave.

STABLE.—At No. 116 East Sixty-sixth St., Mr. C. F. Clark proposes to build a stable, to be designed by Messrs. C. W. Honeyn & Co.

Mr. Richard M. Hunt will be the architect for the Vanderbilt Mausoleum, on Staten Island.

BUILDING PERMITS.—Eighty-sixth St., n s, 200' e Avenue B, two-story brick refrigerator building, tin roof; cost, \$15,000; owner, G. F. & E. C. Swift, West Washington Market; architect, Fred. C. Miller; builder, B. F. Bailey.

Eleventh Ave., w s, 49' 1/2' s Thirty-eighth St., three-story brick vinegar factory, gravel roof; cost, \$18,000; owner, Oswald Badenbach, 368 West Fifty-seventh St.; architect, J. M. Forster.

East Tenth St., No. 372, five-story brick and stone tenement, tin roof; cost, \$17,000; owner, Peter Lyding, 175-179 Second St.; architect, F. W. Klent.

Grand St., No. 81, five-story brick and stone store, tin roof; cost, \$18,000; owner, George Thelms, 124 East Fourteenth St.; architect, Schwarmann & Schumann, builders, J. & L. Weber and J. F. Moore.

East Fifty-third St., Nos. 159, 161 and 163, 3 five-story brick tenements, tin roofs; cost, each, \$12,000; owner, B. C. Wandell, 157 East Fifty-third St.; architect, D. J. MacLean.

One Hundred and Thirty-fourth St., s s, 119' w Brown Pl., 3 three-story brick dwellings, tin roofs; cost, each, \$1,000; owner, Thatcher M. Adams, 18 West Seventeenth St.; architect, David S. Davies; builders, Davies & McEwen.

Tenth Ave., e s, 50' One Hundred and Fifty-seventh St., four-story brick dwell. and store, tin roof; cost, \$7,000; owner, Chas. A. Briggs, One Hundred and Fifty-second St., near Marion River; architect, H. Kretzler; builder, O. L. Terwilliger.

West Fifty-fourth St., No. 100, four-story brick dwell., tin and slate roof; cost, \$7,000; owner, J. Brakman, 363 Sixth Ave.; architects, Miller & Bickert.

Third Ave., e s, 39' s One Hundred Fifty-fifth St., three-story brick tenement and two-story frame stable, tin and gravel roofs; cost, \$1,300 and \$250; owner, Fred. Kurtz, 246 Avenue A; architect, Adolph Pfeiffer.

Norfolk St., No. 98, five-story brick and stone tenement and store, tin roof; cost, \$17,000; owner, Rudolph Boehm, 362 Broome St.; architect, Wm. Graul.

Norfolk St., No. 100, five-story brick and stone tenement and store, tin roof; cost, \$17,000; owner and architect, same as last.

Philadelphia.

BUILDING PERMITS.—Bancroft St., bet. Dickerson and Tasker Sts., 2 two-story dwellings, 14' x 28'; Guthrie & Simpson, contractors.
 Frankford Road, above Nicotown Lane, two-story dwell., 16' x 40'; Altkinson, Pinks, & contractors.
 Poplar St., No. 1618, three-story dwell., 18' x 24'; Jas. I. Sanders, contractor.
 Second St., above Columbia Ave., two-story stable, 16' x 30'; Michael J. Quinn, owner.
 Monmouth St., bet. Edgemont and Thompson Sts., two-story slaughter-house, 21' x 27'; P. Hayes, owner.
 Stillman St., n of Jefferson St., 6 two-story dwellings, 19' x 16'; E. F. Nock, owner, 2813 Gerard Ave.
 Hope St., above Cambria St., two-story dwell., 17' x 35'; Joseph Firth, contractor.
 Fifth St., above Huntington St., two-story stable, 20' x 30'; Wisner and Elsenrager, owners.
 Wharton St., bet. Twentieth and Twenty-first Sts., two-story dwell., 16' x 36'; Henry R. Condon, owner.
 Jefferson St., bet. Ridge Ave. and Mitchell St., 2 three-story dwell., 17' x 37'; Wm. Cole.
 Chestnut St., No. 623, one-story office, 30' x 30'; Mariner & Buckingham, contractors.
 Cambria St., bet. Eleventh and Twelfth Sts., three-story boiler-house; John Dunlap, contractor.
 Clarion St., No. 1210, three-story dwell., 17' x 30'; Geo. A. Fry, contractor.
 Kelly Ave., No. 4535, two-story dwell., 22' x 40'; Jos. A. Sykes, owner.
 Nineteenth St., n of Dickinson St., 2 two-story dwellings, 16' x 44'; Wm. Martin, owner.
 Twenty-fifth St., n s cor. Hamilton St., dye-house, 61' x 66'; B. & M. Fleisher, owners.
 Atmore St., w of Thirteenth St., 3 three-story dwellings, 16' x 26'; Myers & Campbell, contractors.
 Gordon St., e of Belgrade St., 7 two-story dwellings, 12' 1/2' x 27'; Snyder & Menous, owners.
 Fillmore St., e of Main St., 2 two-story dwellings; Eliza O'Brien, owner.

There is no change in quotations this week.

St. Louis.

BUILDING PERMITS.—Fifty-seven permits have been issued since our last report, nineteen of which are for unimportant frame houses. Of the rest, those worth \$2,500 and over are as follows:—
 Hector, wardens and vestry of Grace Church, two-story parsonage; cost, \$2,500; J. H. Moulton, contractor.
 Wm. Simon, two-story dwell.; cost, \$5,400; C. May, architect; Rolfe & Katterman, contractor.
 D. Cavanaugh, 3 adjacent two-story dwellings; cost, \$4,400; contract sub-let.
 E. Horn, two-story brick store and dwell.; cost, \$7,000; A. Anderson, contractor.
 S. P. Johnson, 3 adjacent two-story brick dwellings; cost, \$7,000; S. P. Johnson, contractor.
 Henry Menko, two-story dwell.; cost, \$3,000; A. Beinke & Co., architects; Shildennan & Gross, contractors.
 Chas. Stevin, three and four-story stores and rooms (alterations); cost, \$3,000; Geo. I. Barnett, architect; contract sub-let.
 F. Traudt, 3 adjacent two-story tenements; cost, \$5,000; C. Gerhardt, contractor.